YAMAHA

READ THIS MANUAL CAREFULLY!
It contains important safety information.

OWNER'S MANUAL

YFZ450

YFZ450S

⚠ WARNING

This ATV should not be ridden by anyone under 16 years of age.

LIT-11626-17-11

5TG-28199-10

EBU00776

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

YAMAHA LIT-CALIF-65-01

EBU01200

INTRODUCTION

Congratulations on your purchase of the Yamaha YFZ450. It represents the result of many years of Yamaha experience in the production of fine sporting, touring, and pacesetting racing machines. With the purchase of this Yamaha, you can now appreciate the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields. This manual will provide you with a good basic understanding of the features and operation of this ATV. **This manual includes important safety information. It provides information about special techniques and skills necessary to ride your ATV.** It also includes basic maintenance and inspection procedures. If you have any questions regarding the operation or maintenance of your ATV, please consult a Yamaha dealer.

AN IMPORTANT SAFETY MESSAGE:

- READ THIS MANUAL TOGETHER WITH TIPS FOR THE ATV RIDER CAREFULLY AND COMPLETELY BEFORE OPERATING YOUR ATV. MAKE SURE YOU UNDERSTAND ALL INSTRUCTIONS.
- PAY CLOSE ATTENTION TO THE WARNING AND CAUTION LABELS ON THE ATV.
- NEVER OPERATE AN ATV WITHOUT PROPER TRAINING OR INSTRUCTION. FREE TRAINING IS AVAILABLE TO ANYONE WHO BUYS A NEW ATV. CALL 1-800-887-2887 FOR MORE INFORMATION.
- THIS ATV, AND ANY OTHER ATV OVER 90cc, SHOULD NOT BE RIDDEN BY ANYONE UNDER 16 YEARS OF AGE.
- THIS ATV IS A HIGH PERFORMANCE ATV FOR OFF-ROAD USE ONLY, FOR SPORT TYPE RECREATIONAL AND COMPETITIVE USE BY EXPERIENCED OPERATORS.

EBU00801

IMPORTANT MANUAL INFORMATION

FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.

Particularly important information is distinguished in this manual by the following notations:

⚠	**The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**
⚠ WARNING	**Failure to follow WARNING instructions could result in severe injury or death to the machine operator, a bystander or a person inspecting or repairing the machine.**
CAUTION:	**A CAUTION indicates special precautions that must be taken to avoid damage to the machine.**
NOTE:	A NOTE provides key information to make procedures easier or clearer.

EBU00011

IMPORTANT NOTICE

This machine is designed and manufactured for OFF-ROAD use only. It is illegal and unsafe to operate this machine on any public street, road or highway.
This machine complies with all applicable OFF-ROAD noise level and spark arrester laws and regulations in effect at the time of manufacture.
Please check your local riding laws and regulations before operating this machine.

EBU00981

AFFIX DEALER

LABEL HERE

YFZ450S
OWNER'S MANUAL
©2003 by Yamaha Motor Corporation, U.S.A.
1st edition, March 2003
All rights reserved.
Any reprinting or unauthorized use without the written permission of Yamaha Motor Corporation, U.S.A. is expressly prohibited.
Printed in Japan.
P/N LIT-11626-17-11

EBU00014

⚠ WARNING

Indicates a potential hazard that could result in serious injury or death.

CONTENTS

1 LOCATION OF THE WARNING AND SPECIFICATION LABELS..... 1-1

2 SAFETY INFORMATION..... 2-1

3 DESCRIPTION AND MACHINE IDENTIFICATION 3-1
- Identification number records..... 3-2
- Key identification number..... 3-2
- Vehicle identification number 3-3
- Model label 3-3

4 CONTROL FUNCTIONS.....4-1
- Main switch 4-1
- Indicator and warning lights.....4-2
- Handlebar switches 4-4
- Throttle lever 4-5
- Speed limiter 4-6
- Clutch lever 4-7
- Brake lever 4-7
- Brake pedal.....4-8
- Parking brake lever 4-9
- Shift pedal 4-10
- Fuel tank cap 4-11
- Fuel cock.....4-11
- Starter (choke) 4-12
- Seat.....4-13
- Front shock absorber adjustment 4-14
- Rear shock absorber adjustment...4-18

5 PRE-OPERATION CHECKS 5-1
Front and rear brakes 5-3
Fuel 5-4
Engine oil 5-6
Coolant 5-7
Chain 5-8
Throttle lever 5-8
Fittings and fasteners 5-8
Lights 5-8
Switches 5-8
Tires 5-9
How to measure tire pressure 5-10
Tire wear limit 5-11

6 OPERATION 6-1
Starting a cold engine 6-1
Starting a warm engine 6-4
Warming up 6-4
Shifting 6-4
To start out and accelerate 6-6
To decelerate 6-7
Engine break-in 6-7
Parking 6-8
Parking on a slope 6-9
Accessories and loading 6-10

7 RIDING YOUR ATV 7-1
Getting to know your ATV 7-3
Ride with care and good judgement 7-4
Be careful where you ride 7-16
Turning your ATV 7-23
Climbing uphill 7-25
Riding downhill 7-30
Crossing a slope 7-32
Crossing through shallow water 7-34
Riding over rough terrain 7-36
Sliding and skidding 7-38
What to do if 7-40
What to do 7-40

8

PERIODIC MAINTENANCE AND ADJUSTMENT 8-1
Owner's manual and tool kit 8-1
Periodic maintenance/ lubrication 8-3
Panel removal and installation 8-5
Engine oil and oil filter element 8-7
Cooling system 8-13
Changing the coolant 8-14
Spark plug inspection 8-17
Air filter element cleaning 8-23
Spark arrester cleaning 8-26
Carburetor adjustment 8-27
Idle speed adjustment 8-28
Valve clearance adjustment 8-28
Throttle lever adjustment 8-29
Front brake pad inspection 8-29
Rear brake pad inspection 8-30
Brake fluid level inspection 8-31
Brake fluid replacement 8-32
Front brake lever free play 8-33
Brake pedal height adjustment 8-34
Parking brake adjustment 8-35
Adjusting the rear brake light switch 8-37
Clutch lever free play adjustment 8-37
Drive chain slack check 8-39
Drive chain slack adjustment 8-40
Lubricating the drive chain 8-41
Cable inspection and lubrication 8-43
Brake pedal, brake lever and clutch lever lubrication 8-44
Front upper and lower arm pivot lubrication 8-45
Rear arm pivot lubrication 8-46
Wheel removal 8-47
Wheel installation 8-48
Battery 8-49
Battery maintenance 8-50
Fuse replacement 8-51
Replacing a headlight bulb 8-52
Headlight beam adjustment 8-55
Tail/brake light bulb replacement 8-55
Troubleshooting 8-57

Troubleshooting charts 8-58

9 CLEANING AND STORAGE..... 9-1
A. Cleaning..... 9-1
B. Storage 9-3

10 SPECIFICATIONS..... 10-1

11 NOISE REGULATION..... 11-1

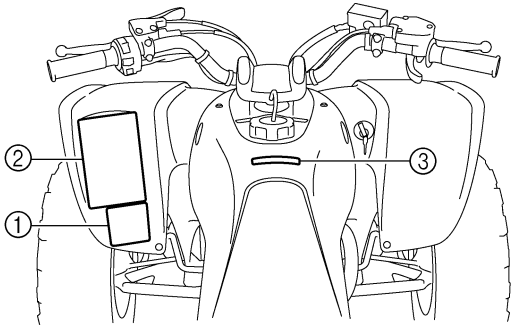
12 MAINTENANCE RECORD 12-1

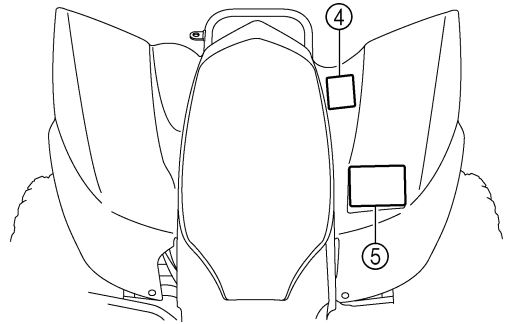
13 ATV LIMITED WARRANTY..... 13-1

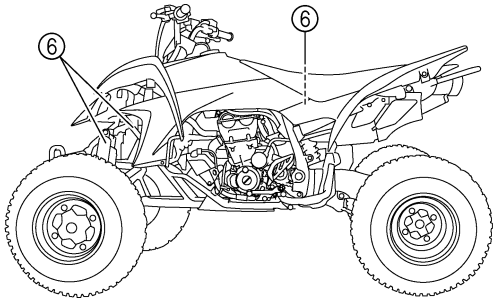
14 YAMAHA EXTENDED SERVICE (Y.E.S.) 14-1

EBU00464

LOCATION OF THE WARNING AND SPECIFICATION LABELS







Read and understand all of the labels on your machine. They contain important information for safe and proper operation of your ATV.

Never remove any labels from your ATV. If a label becomes difficult to read or comes off, a replacement label is available from your Yamaha dealer.

①

⚠ WARNING

Operating this ATV if you are under the age of **16** increases your chance of severe injury or death.

NEVER operate this ATV if you are under age **16**.

5FE-21697-01

②

⚠ WARNING

Improper ATV use can result in SEVERE INJURY or DEATH.

ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR | NEVER USE ON PUBLIC ROADS | NEVER CARRY PASSENGERS | NEVER USE WITH DRUGS OR ALCOHOL

NEVER operate :

- **without proper training or instruction.**
- **at speeds too fast for your skills or the conditions.**
- **on public roads-a collision can occur with another vehicle.**
- **with a passenger-passengers affect balance and steering and increase risk of losing control.**

ALWAYS :

- **use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.**
- **avoid paved surfaces-pavement may seriously affect handling and control.**

LOCATE AND READ OWNER'S MANUAL.
FOLLOW ALL INSTRUCTIONS AND WARNINGS.
(For replacement manual, call 1-800-532-1558)

5FE-21568-01

③

PREMIUM UNLEADED GASOLINE ONLY
91 Min. Pump Octane (R+M)/2

5PW-2415E-10

④

⚠ WARNING

NEVER ride as a passenger.

Passengers can cause a loss of control, resulting in SEVERE INJURY or DEATH.

5FE-2151H-01

⑤

⚠ WARNING

IMPROPER TIRE PRESSURE OR OVERLOADING CAN CAUSE LOSS OF CONTROL.

LOSS OF CONTROL CAN RESULT IN SEVERE INJURY OR DEATH.

OPERATING TIRE PRESSURE : Set with tires cold

- Recommended : FRONT : 30kPa, {0.30kgf/cm^2}, 4.4psi
  REAR : 35kPa, {0.35kgf/cm^2}, 5.0psi
- Minimum : FRONT : 27kPa, {0.27kgf/cm^2}, 3.9psi
  REAR : 32kPa, {0.32kgf/cm^2}, 4.5psi
- Never set tire pressure below minimum.
  It could cause the tire to dislodge from the rim.

LOADING

- Maximum Vehicle Load : 100kg, (220lbs).
  Includes weight of operator, cargo and accessories.

5TG-21696-00

⑥

⚠ WARNING

This unit contains high pressure nitrogen gas.
Mishandling can cause explosion.

- Read owner's manual for instructions.
- Do not incinerate, puncture or open.

4AA-22259-80

SAFETY INFORMATION

AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE. An ATV handles differently from other vehicles including motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers such as turning and riding on hills or over obstacles, if you fail to take proper precautions.

SEVERE INJURY OR DEATH can result if you do not follow these instructions:

- Read this manual and all labels carefully and follow the operating procedures described.
- Never operate an ATV without proper training or instruction. **Take a Training Course.** Beginners should receive training from a certified instructor. Contact an authorized ATV dealer or call 1-800-887-2887 to find out about the training courses nearest you.
- Always follow the age recommendation:
  - A child under 16 years old should never operate an ATV with engine size greater than 90cc.
- Never allow a child under age 16 to operate an ATV without adult supervision, and never allow continued use of an ATV by a child if he or she does not have the abilities to operate it safely.
- Never carry a passenger on an ATV.

- Always avoid operating an ATV on any paved surfaces, including sidewalks, driveways, parking lots and streets.
- Never operate an ATV on any public street, road or highway, even a dirt or gravel one.
- Never operate an ATV without wearing an approved motorcycle helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, a long-sleeved shirt or a jacket, and long pants.
- Never consume alcohol or drugs before or while operating this ATV.
- Never operate at speeds too fast for your skills or the conditions. Always go at a speed that is proper for the terrain, visibility, operating conditions, and your experience.
- Never attempt wheelies, jumps, or other stunts.
- Always inspect your ATV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Always keep both hands on the handlebars and both feet on the footpegs of the ATV during operation.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.
- Never operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain.

- Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.
- Never operate the ATV on hills too steep for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills with excessively slippery or loose surfaces. Shift your weight forward. Never open the throttle suddenly or make sudden gear changes. Never go over the top of a hill at high speed.
- Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Shift your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle that would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.
- Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep hill if possible.

- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, use the proper gear and maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to a side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in this manual.
- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful when skidding or sliding. Learn to safely control skidding or sliding by practicing at low speeds and on level, smooth terrain. On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Never operate an ATV in fast flowing water or in water deeper than that recommended in this manual. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.

- Always use the size and type of tires specified in this manual.
- Always maintain proper tire pressure as described in this manual.
- Never modify an ATV through improper installation or use of accessories.
- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.

FOR MORE INFORMATION ABOUT ATV SAFETY, call the Consumer Products Safety Commission at 1-800-638-2772, or the ATV Distributor's Safety Hotline at 1-800-852-5344.

⚠ WARNING

POTENTIAL HAZARD

Improper handling of gasoline.

WHAT CAN HAPPEN

Gasoline can catch fire and you could be burned.

HOW TO AVOID THE HAZARD

Always turn off the engine when refueling. Do not refuel immediately after the engine has been running and is still very hot. Do not spill gasoline on the engine or exhaust pipe/muffler when refueling. Never refuel while smoking or in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers.

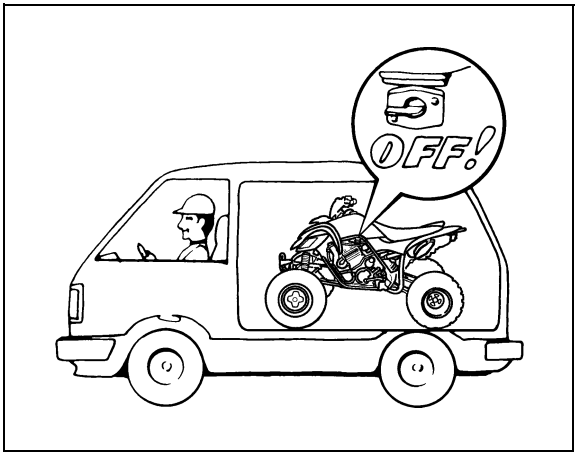
When transporting the ATV in another vehicle, be sure it is kept upright and that the fuel cock is in the "OFF" position. Otherwise, fuel may leak out of the carburetor or fuel tank.

WHAT CAN HAPPEN

Gasoline is poisonous and can cause injuries.

HOW TO AVOID THE HAZARD

If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.



⚠ WARNING

POTENTIAL HAZARD

Starting or running the engine in a closed area.

WHAT CAN HAPPEN

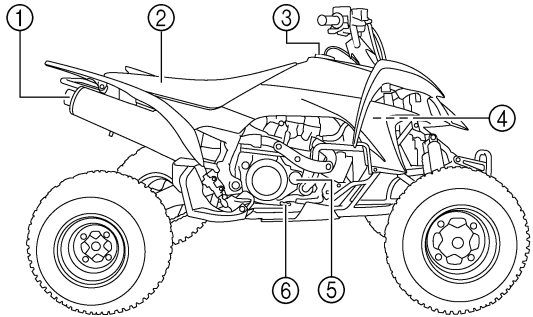
Exhaust fumes are poisonous and may cause loss of consciousness and death within a short time.

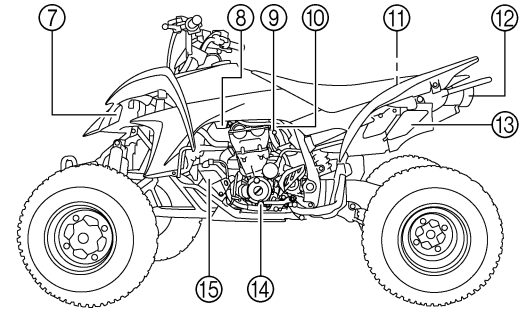
HOW TO AVOID THE HAZARD

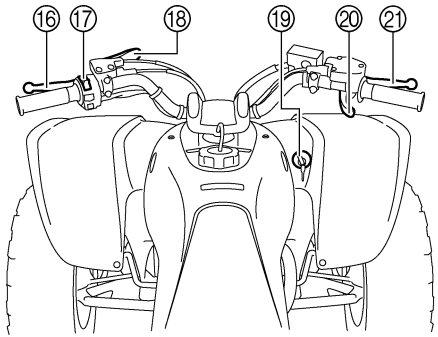
Always operate your ATV in an area with adequate ventilation.

EBU00032

DESCRIPTION AND MACHINE IDENTIFICATION







1. Spark arrester
2. Seat
3. Fuel tank cap
4. Radiator cap
5. Oil filter element
6. Brake pedal
7. Headlights
8. Fuel cock
9. Starter (choke)
10. Throttle stop screw
11. Fuse
12. Tail/brake light
13. Coolant reservoir
14. Shift pedal
15. Engine oil tank
16. Clutch lever
17. Handlebar switches
18. Parking brake lever
19. Main switch
20. Throttle lever
21. Brake lever

NOTE:

The machine you have purchased may differ slightly from those shown in the figures of this manual.

EBU00600

Identification number records

Record the key identification number, vehicle identification number and model label information in the spaces provided for assistance when ordering spare parts from a Yamaha dealer or for reference in case the vehicle is stolen.

1. KEY IDENTIFICATION NUMBER:

2. VEHICLE IDENTIFICATION NUMBER:

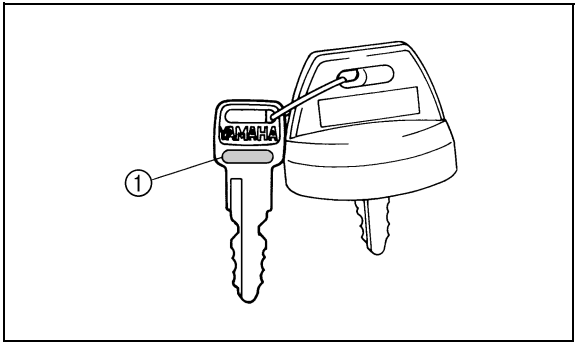
3. MODEL LABEL INFORMATION:

○
●

EBU00035

Key identification number

The key identification number is stamped on the key as shown in the following illustration. This number can be used for ordering a new key.

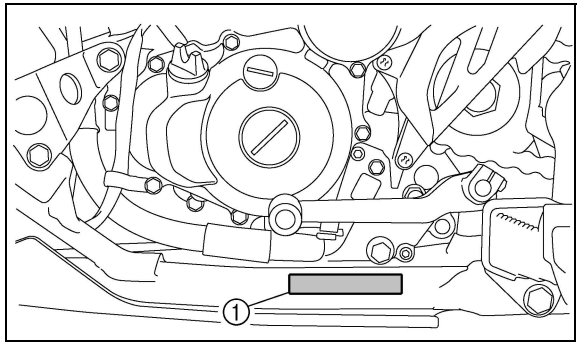


1. Key identification number

EBU00036

Vehicle identification number

The vehicle identification number is stamped into the frame.



1. Vehicle identification number

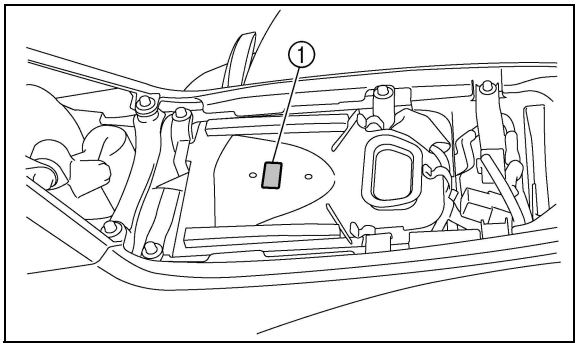
NOTE:

The vehicle identification number is used to identify your machine.

EBU00787

Model label

The model label is affixed to the location in the illustration. Record the information on this label in the space provided. This information will be needed to order spare parts from your Yamaha dealer.



1. Model label

EBU00039

CONTROL FUNCTIONS

⚠ WARNING

Indicates a potential hazard that could result in serious injury or death.

EBU00420

Main switch

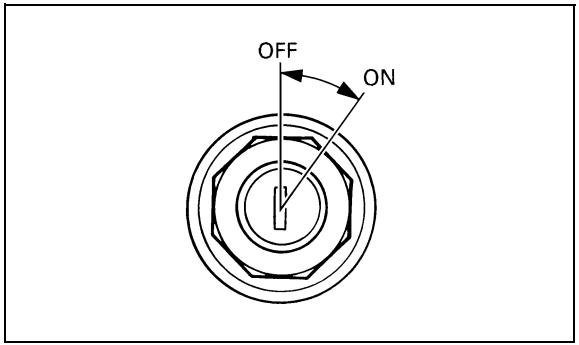
Functions of the respective switch positions are as follows:

ON:

The engine can be started only at this position.

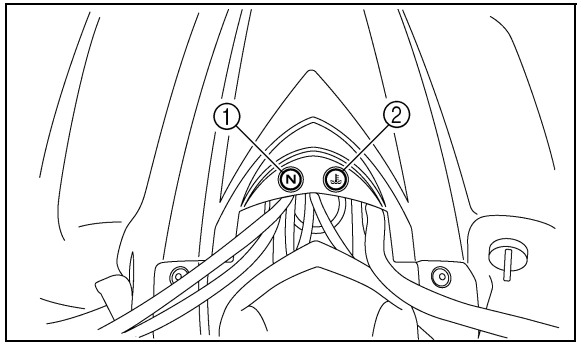
OFF:

All electrical circuits are switched off. The key can be removed in this position.



EBU00802

Indicator and warning lights



1. Neutral indicator light “N”
2. Coolant temperature warning light “ ”

EBU00603

Neutral indicator light “N”

This indicator light comes on when the transmission is in neutral.

EBU13850

Coolant temperature warning light “ ”

When the coolant temperature reaches a specified level, this light comes on to warn that the coolant temperature is too hot. If the light comes on during operation, stop the engine as soon as it is safe to do so and allow the engine to cool down for about 10 minutes.

The electrical circuit of the warning light can be checked according to the following procedures.

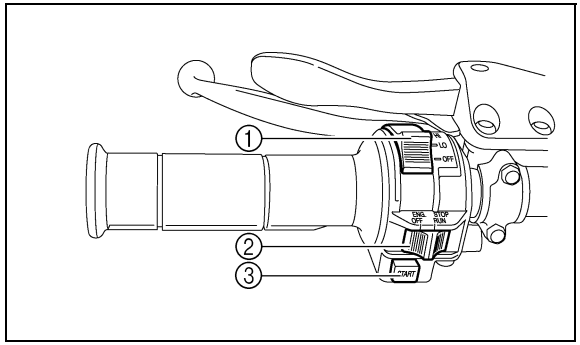
1. Set the engine stop switch to “RUN” and turn the key to “ON”.
2. Shift the transmission into the neutral position or pull the clutch lever.
3. Push the start switch. If the warning light does not come on while the start switch is pushed, have a Yamaha dealer check the electrical circuit.

CAUTION:

- **The engine may overheat if the ATV is overloaded. If this happens, reduce the load to specification.**
- **Restart after making sure that the light is off. Continuous use while the light is on may cause damage to the engine.**

EBU00053

Handlebar switches



1. Light switch “LIGHTS”
2. Engine stop switch “ENG. STOP”
3. Start switch “START”

EBU13741

Light switch “LIGHTS”

Set the switch to the “LO” position to turn on the low beam and the taillight.
Set the switch to the “HI” position to turn on the high beam and the taillight.
Set the switch to the “OFF” position to turn off all the lights.

NOTE:

The headlights and the taillight can be turned on only when the engine is started.

EBU11580

Engine stop switch “ENG. STOP”

Make sure that the engine stop switch is in the “RUN” position before starting the engine. The engine stop switch controls ignition and can be used at all times to stop the engine, especially in an emergency. The engine will not start or run when the engine stop switch is turned to “OFF”.

EBU06470

Start switch “START”

The starter motor cranks the engine when this switch is pushed.

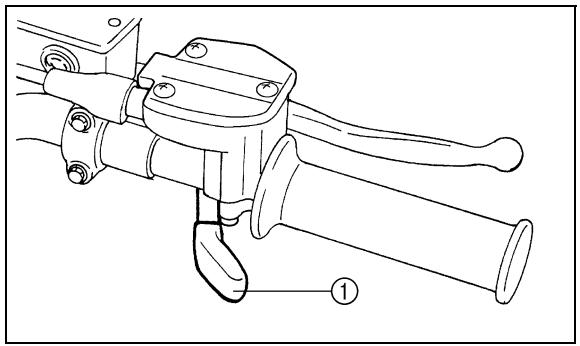
CAUTION:

See the starting instructions on page 6-1 prior to starting the engine.

EBU00062

Throttle lever

Once the engine is running, movement of the throttle lever will increase the engine speed. Regulate the speed of the machine by varying the throttle position. Because the throttle is spring-loaded, the machine will decelerate, and the engine will return to an idle any time the hand is removed from the throttle lever.



1. Throttle lever

Before starting the engine, check the throttle to be sure it is operating smoothly. Make sure it returns to the idle position as soon as the lever is released.

⚠ WARNING

POTENTIAL HAZARD

Malfunction of throttle.

WHAT CAN HAPPEN

The throttle could be hard to operate, making it difficult to speed up or slow down when you need to. This could cause an accident.

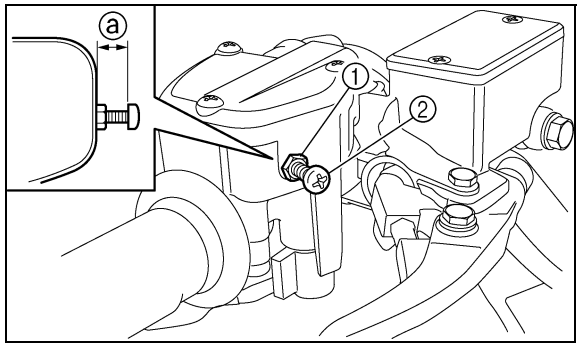
HOW TO AVOID THE HAZARD

Check the operation of the throttle lever before you start the engine. If it does not work smoothly, check for the cause. Correct the problem before riding the ATV. Consult a Yamaha dealer if you can't find or solve the problem yourself.

EBU01159

Speed limiter

The speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to the maximum. Turning in the adjusting screw limits the maximum engine power available and decreases the maximum speed of the ATV.



1. Locknut 2. Adjusting screw a. 12 mm (0.47 in)

⚠ WARNING

POTENTIAL HAZARD

Improper adjustment of the speed limiter and throttle.

WHAT CAN HAPPEN

The throttle cable could be damaged. Improper throttle operation could result. You could lose control, have an accident or be injured.

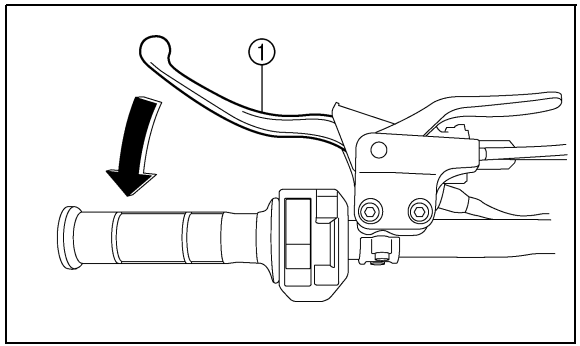
HOW TO AVOID THE HAZARD

Do not turn the adjusting screw out more than 12 mm (0.47 in). Always make sure the throttle lever free play is adjusted to 2–4 mm (0.08–0.16 in). See page 8-29.

EBU00069

Clutch lever

The clutch lever is located on the left handlebar and the ignition circuit cut-off system is incorporated in the clutch lever holder. Pull the clutch lever to the handlebar to disengage the clutch, and release the lever to engage the clutch. The lever should be pulled rapidly and released slowly for smooth clutch operation. (Refer to “Starting a cold engine” for a description of the ignition circuit cut-off system.)

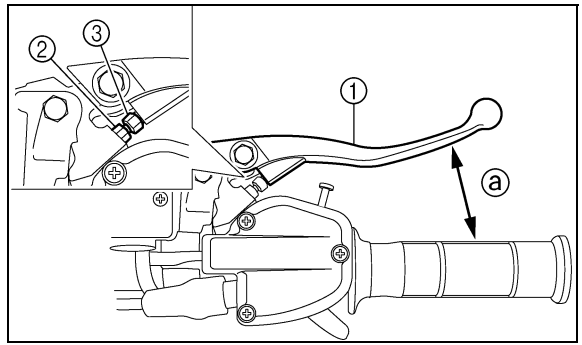


1. Clutch lever

EBU13860

Brake lever

The brake lever is located on the right handlebar. Pull it toward the handlebar to apply the front brake.



1. Brake lever
2. Locknut
3. Adjusting bolt

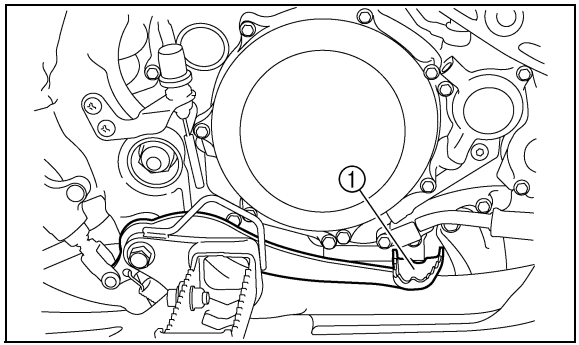
a. Distance between brake lever and handlebar grip

The brake lever is equipped with a position adjusting bolt. To adjust the distance between the brake lever and the handlebar grip, hold the lever away from the handlebar so it does not contact the adjusting bolt, loosen the locknut, turn the adjusting bolt, and then tighten the locknut.

EBU00989

Brake pedal

The brake pedal is located on the right side of the machine. Push down on the pedal to apply the rear brake.

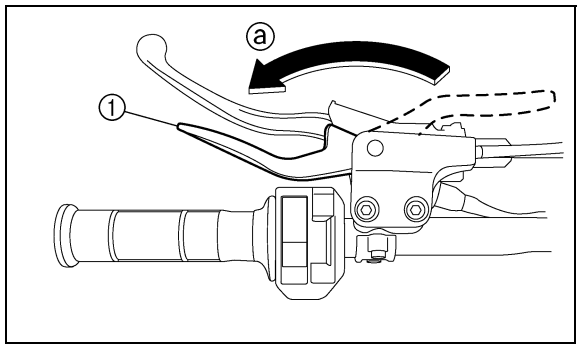


1. Brake pedal

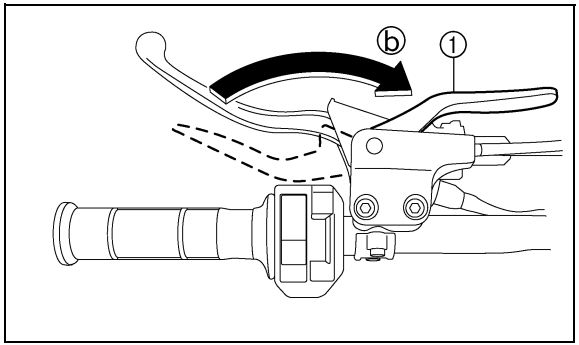
EBU13870

Parking brake lever

Use the parking brake when you have to start the engine or park the machine, especially on a slope. To apply the parking brake, move the parking brake lever in direction ⓐ. To release the parking brake, move the parking brake lever in direction ⓑ.



1. Parking brake lever (Locked position)



1. Parking brake lever (Unlocked position)

⚠ WARNING

POTENTIAL HAZARD

Improper use of the parking brake.

WHAT CAN HAPPEN

The ATV could start moving unexpectedly if the parking brake is not applied before starting the engine. This could cause loss of control or a collision.

The brake disc could overheat if you ride the ATV without releasing the parking brake. You could lose braking performance which could cause an accident. You could also wear out the brakes prematurely.

HOW TO AVOID THE HAZARD

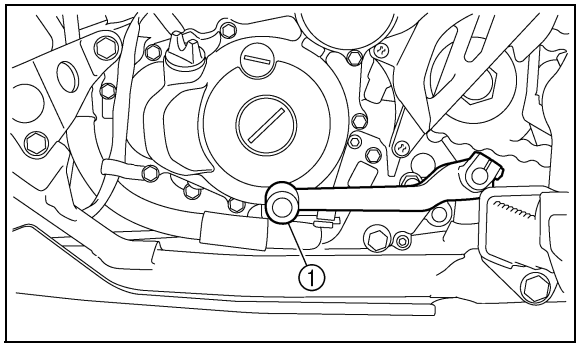
Always set the parking brake before starting the engine.

Always be sure you have released the parking brake before you begin to ride.

EBU00820

Shift pedal

This machine is equipped with a constant-mesh 5-speed transmission. The shift pedal is located on the left side of the engine and is used in combination with the clutch when shifting.

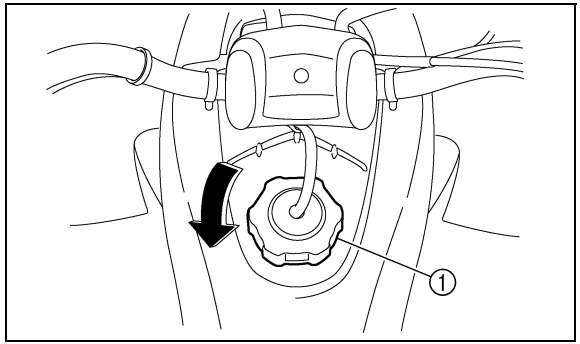


1. Shift pedal

EBU00092

Fuel tank cap

Remove the fuel tank cap by turning it counterclockwise.



1. Fuel tank cap

EBU00093

Fuel cock

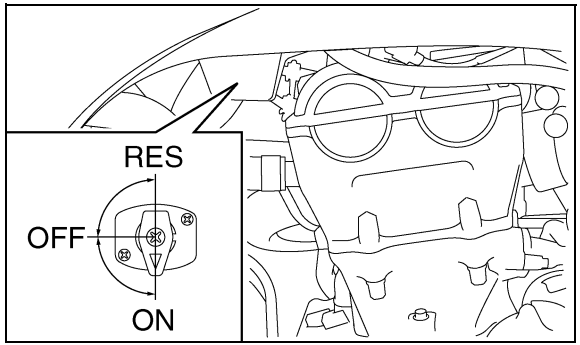
The fuel cock supplies fuel from the fuel tank to the carburetor.

The fuel cock has three positions.

OFF: With the lever in this position, fuel will not flow. Always turn the lever to this position when the engine is not running.

ON: With the lever in this position, fuel flows to the carburetor. Normal riding is done with the lever in this position.

RES: This indicates reserve. If you run out of fuel while riding, turn the lever to this position. THEN FILL THE FUEL TANK AT THE FIRST OPPORTUNITY. After refuelling, return the fuel cock lever to the “ON” position.



EBU00095

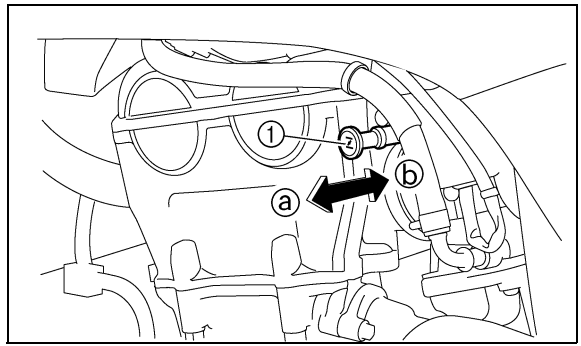
Starter (choke) "⎸◝⎸"

Starting a cold engine requires a richer air-fuel mixture. A separate starter circuit supplies this mixture.

Move in direction ⓐ to turn on the starter (choke).

Move in direction ⓑ to turn off the starter (choke).

Refer to "Starting a cold engine" for proper operation. (See page 6-1.)

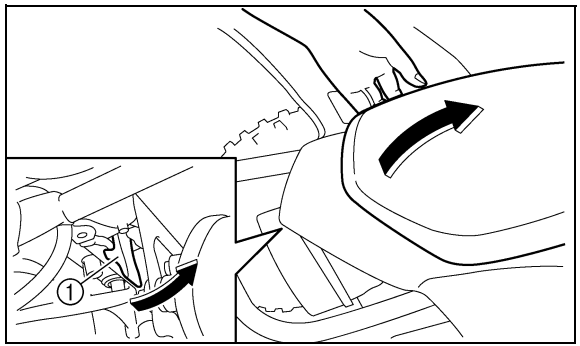


1. Starter (choke) "⎸◝⎸"

EBU01010

Seat

To remove the seat, insert your hand between the rear of the seat and the rear fender, pull the seat lock lever upward and pull up the seat at the rear.

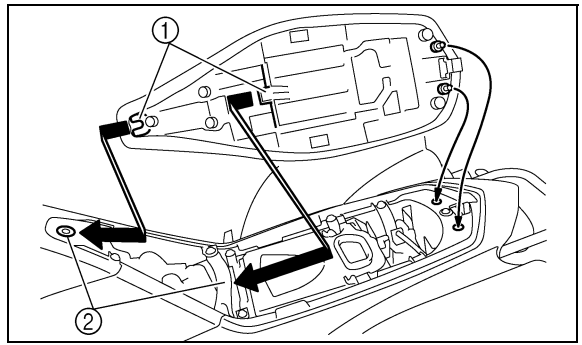


1. Seat lock lever

To install the seat, insert the projections on the front of the seat into the seat holders and push down on the seat at the rear.

NOTE:

Make sure that the seat is securely fitted.



1. Projection (× 2)
2. Seat holder (× 2)

EBU13881*

Front shock absorber adjustment

The spring preload, rebound damping and compression damping forces of the front shock absorbers can be adjusted to suit the rider's weight and the riding conditions.

⚠ WARNING

POTENTIAL HAZARD

These shock absorbers contain highly pressurized nitrogen gas.

WHAT CAN HAPPEN

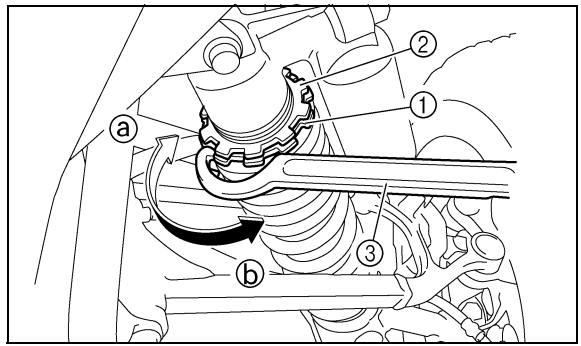
The shock absorbers could explode, causing injury or property damage. Cylinder damage could also result in poor handling which could cause an accident.

HOW TO AVOID THE HAZARD

- **Do not tamper with or attempt to open the cylinder assemblies.**
- **Do not subject the shock absorbers to an open flame or other high heat.**
- **Do not deform or damage the cylinders in any way.**
- **Do not dispose of a damaged or worn out shock absorber yourself. Take the unit to a Yamaha dealer.**

Adjust the spring preload as follows.

1. Loosen the locknut.
2. Turn the adjusting nut in direction ⓐ to increase the spring preload and in direction ⓑ to decrease the spring preload.

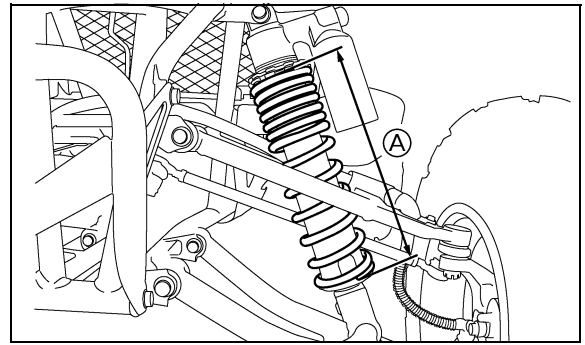


1. Spring preload adjusting nut
2. Locknut
3. Special wrench

NOTE:
A special wrench can be obtained at a Yamaha dealer to make this adjustment.

3. The length of the spring (installed) changes 1.5 mm (0.06 in) per turn of the adjusting nut.

Measurement Ⓐ:
Installed length:
Minimum (hard): 245 mm (9.6 in)
Standard: 255 mm (10.0 in)
Maximum (soft): 256.5 mm (10.1 in)



A. Spring length

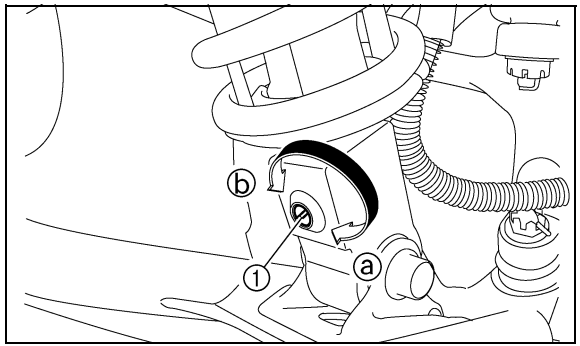
4. Tighten the locknut to the specified torque.

Tightening torque:
Locknut:
30 Nm (3.0 m·kgf, 22 ft·lbf)

CAUTION:

Always tighten the locknut against the adjusting nut and tighten it to the specified torque.

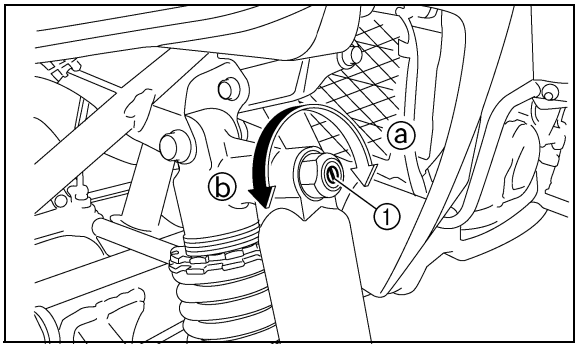
Adjust the rebound damping force as follows.
Turn the rebound damping force adjusting screw in direction ⓐ to increase the rebound damping force and in direction ⓑ to decrease the rebound damping force.



1. Rebound damping force adjusting screw

From the fully turned-in position
Minimum (soft): 22 clicks out
Standard: 12 clicks out
Maximum (hard): 1 click out

Adjust the compression damping force as follows.
Turn the compression damping force adjusting screw in direction ⓐ to increase the compression damping force and in direction ⓑ to decrease the compression damping force.



1. Compression damping force adjusting screw

From the fully turned-in position
Minimum (soft): 22 clicks out
Standard: 11 clicks out
Maximum (hard): 1 click out

CAUTION:

Never turn an adjusting mechanism beyond the minimum and maximum settings.

NOTE:

Although the total number of clicks of a damping force adjusting mechanism may not exactly match the above specifications due to small differences in production, the actual number of clicks always represents the entire adjusting range. To obtain a precise adjustment, it would be advisable to check the number of clicks of each damping force adjusting mechanism and to modify the specifications as necessary.

⚠ WARNING

POTENTIAL HAZARD

Suspension components become hot during operation.

WHAT CAN HAPPEN

You could be burned.

HOW TO AVOID THE HAZARD

Never touch the compression damping force adjuster, rebound damping force adjuster or oil reservoir with your bare hand or skin until suspension components have cooled.

⚠ WARNING

POTENTIAL HAZARD

Improper shock absorber adjustment.

WHAT CAN HAPPEN

Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident.

HOW TO AVOID THE HAZARD

Always adjust the shock absorbers on the left and right side to the same setting.

EBU13891

Rear shock absorber adjustment

The spring preload, rebound damping and compression damping forces of the rear shock absorber can be adjusted to suit the rider's weight and the riding conditions.

⚠ WARNING

POTENTIAL HAZARD

This shock absorber contains highly pressurized nitrogen gas.

WHAT CAN HAPPEN

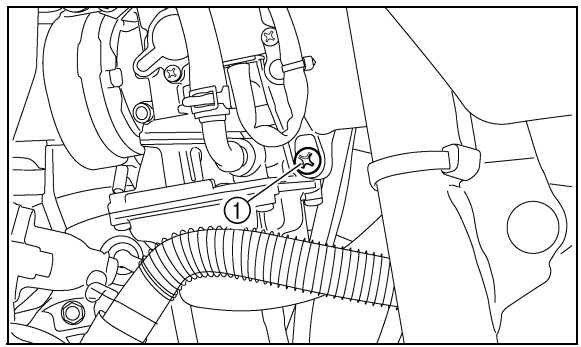
The shock absorber could explode, causing injury or property damage. Cylinder damage could also result in poor handling which could cause an accident.

HOW TO AVOID THE HAZARD

- **Do not tamper with or attempt to open the cylinder assembly.**
- **Do not subject the shock absorber to an open flame or other high heat.**
- **Do not deform or damage the cylinder in any way.**
- **Do not dispose of a damaged or worn out shock absorber yourself. Take the unit to a Yamaha dealer.**

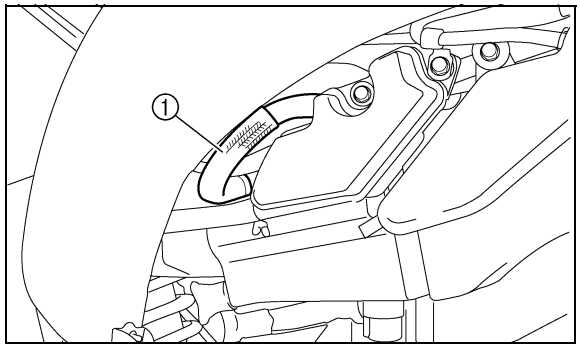
Adjust the spring preload as follows.

1. Remove the seat. (See page 4-13 for seat removal and installation procedures.)
2. Loosen the clamp screw at the carburetor side, and then disconnect the air intake duct.

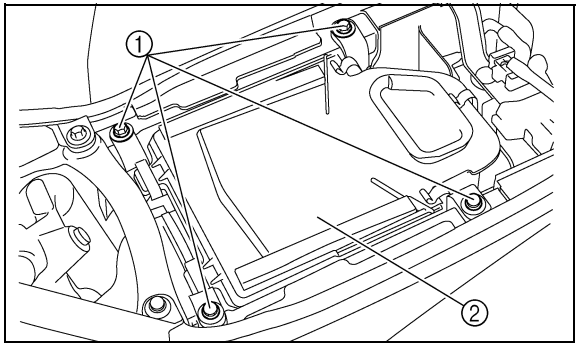


1. Clamp screw

3. Disconnect the hose, and then remove the air filter case by removing the bolts.

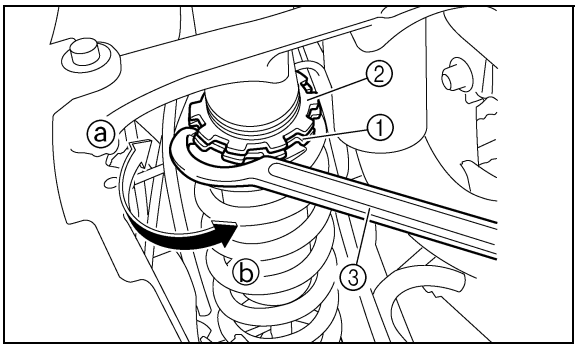


1. Hose



1. Bolt (× 4)
2. Air filter case

4. Loosen the locknut.
5. Turn the adjusting nut in direction ⓐ to increase the spring preload and in direction ⓑ to decrease the spring preload.

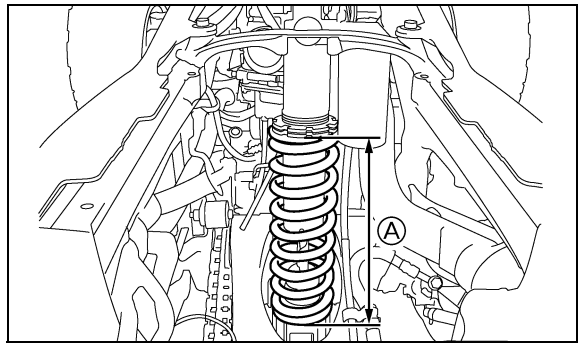


1. Spring preload adjusting nut
2. Locknut
3. Special wrench

NOTE:
A special wrench can be obtained at a Yamaha dealer to make this adjustment.

6. The length of the spring (installed) changes 1.5 mm (0.06 in) per turn of the adjusting nut.

Measurement Ⓐ:
Installed length:
Minimum (hard): 237 mm (9.3 in)
Standard: 244 mm (9.6 in)
Maximum (soft): 251 mm (9.9 in)



A. Spring length

7. Tighten the locknut to the specified torque.

Tightening torque:
Locknut:
45 Nm (4.5 m·kgf, 33 ft·lbf)

CAUTION:

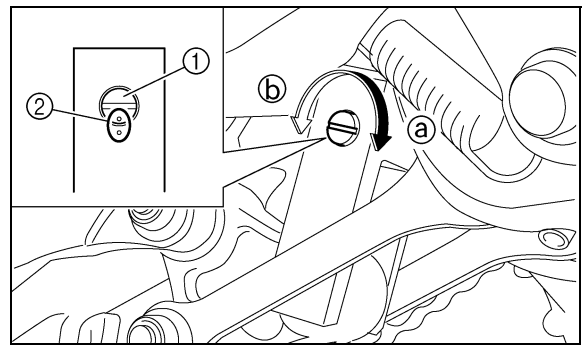
Always tighten the locknut against the adjusting nut and tighten it to the specified torque.

8. Place the air filter case in the original position, connect the air intake duct, and then tighten the clamp screw at the carburetor side.
9. Install the bolts, and then connect the hose.
10. Install the seat.

Adjust the rebound damping force as follows.
Turn the rebound damping force adjusting screw in direction ⓐ to increase the rebound damping force and in direction ⓑ to decrease the rebound damping force.

Minimum (soft): Adjusting screw fully turned out
Standard: Adjusting screw 1 3/4 turns out from the fully turned in position
Maximum (hard): Adjusting screw fully turned in

NOTE:
Make sure that the position indicator marks are aligned when the shock absorber is set to the standard setting.



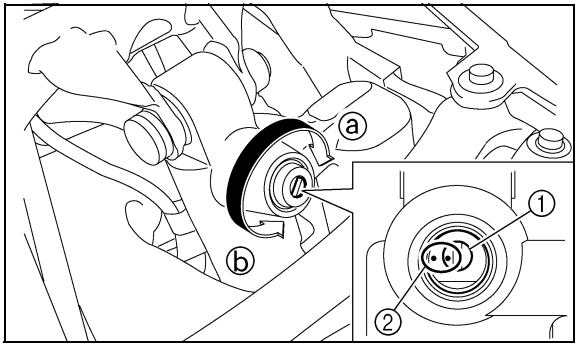
1. Rebound damping force adjusting screw
2. Position indicator marks

Adjust the compression damping force as follows.

1. Remove the seat. (See page 4-13 for seat removal and installation procedures.)
2. Turn the compression damping force adjusting screw in direction ⓐ to increase the compression damping force and in direction ⓑ to decrease the compression damping force.

Minimum (soft): Adjusting screw fully turned out
Standard: Adjusting screw 1/ 3/4 turns out from the fully turned in position
Maximum (hard): Adjusting screw fully turned in

NOTE:
Make sure that the position indicator marks are aligned when the shock absorber is set to the standard setting.



1. Compression damping force adjusting screw
2. Position indicator marks

3. Install the seat.

CAUTION:

Never turn an adjusting mechanism beyond the minimum and maximum settings.

⚠ WARNING

POTENTIAL HAZARD

Suspension components become hot during operation.

WHAT CAN HAPPEN

You could be burned.

HOW TO AVOID THE HAZARD

Never touch the compression damping force adjuster, rebound damping force adjuster or oil reservoir with your bare hand or skin until suspension components have cooled.

EBU00112

⚠ WARNING

Indicates a potential hazard that could result in serious injury or death.

PRE-OPERATION CHECKS

Before using this machine, check the following points:

ITEM	ROUTINE	PAGE
Front brake	• Check operation, lever free play, fluid level and fluid leakage. • Fill with DOT 4 brake fluid if necessary.	5-3–5-4, 8-29–8-33
Rear brake	• Check operation, fluid level and fluid leakage. • Fill with DOT4 brake fluid if necessary.	5-3–5-4, 8-30–8-32, 8-34
Clutch	• Check operation, condition and lever free play.	8-37–8-38
Parking brake	• Check operation, condition and cable length.	8-35–8-36
Fuel	• Check fuel level. • Fill with fuel if necessary.	5-4–5-6
Engine oil	• Check oil level. • Fill with oil if necessary.	5-6, 8-7–8-12
Coolant reservoir	• Check coolant level in reservoir. • Fill with coolant if necessary.	5-7, 8-13–8-17
Drive chain	• Check chain slack and condition. • Adjust if necessary.	5-8, 8-39–8-42
Throttle	• Check for proper throttle cable operation and free play.	5-8, 8-29
Wheels and tires	• Check tire pressure, wear and damage.	5-9–5-11, 8-47–8-48
Fittings and fasteners	• Check all fittings and fasteners.	5-8
Lights and switches	• Check for proper operation.	5-8, 8-37, 8-52–8-56

⚠ WARNING

POTENTIAL HAZARD

Failure to inspect the ATV before operating.

Failure to properly maintain the ATV.

WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always inspect your ATV each time you use it to make sure the ATV is in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

EBU01166

Front and rear brakes

Brake lever and brake pedal

- Check that there is no free play in the brake lever. If there is free play, have a Yamaha dealer inspect the brake system.
- Check for correct brake pedal height. (See page 8-34.) If the pedal height is incorrect, have a Yamaha dealer adjust it.
- Check the operation of the lever and pedal. They should move smoothly and there should be a firm feeling when the brakes are applied. If not, have a Yamaha dealer inspect the brake system.

Brake fluid level

Check the brake fluid level. Add fluid if necessary. (See pages 8-31–8-32.)

Recommended brake fluid: DOT 4

Brake fluid leakage

Check to see if any brake fluid is leaking out of the pipe joints or brake fluid reservoirs. Apply the brakes firmly for one minute. If there is any leakage, have a Yamaha dealer inspect the brake system.

Brake operation

Test the brakes at slow speed after starting out to make sure they are working properly. If the brakes do not provide proper braking performance, inspect the brake pads for wear. (See pages 8-29–8-30.)

⚠ WARNING

POTENTIAL HAZARD

Riding with improperly operating brakes.

WHAT CAN HAPPEN

You could lose braking ability, which could lead to an accident.

HOW TO AVOID THE HAZARD

Always check the brakes at the start of every ride. Do not ride the ATV if you find any problem with the brakes. If a problem cannot be corrected by the adjustment procedures provided in this manual, have a Yamaha dealer check for the cause.

EBU13900

Fuel

Make sure there is sufficient gasoline in the tank.

Recommended fuel:
PREMIUM UNLEADED GASOLINE ONLY
Fuel tank capacity:
Total:
10.0 L (2.20 Imp gal, 2.64 US gal)
Reserve:
1.9 L (0.42 Imp gal, 0.50 US gal)

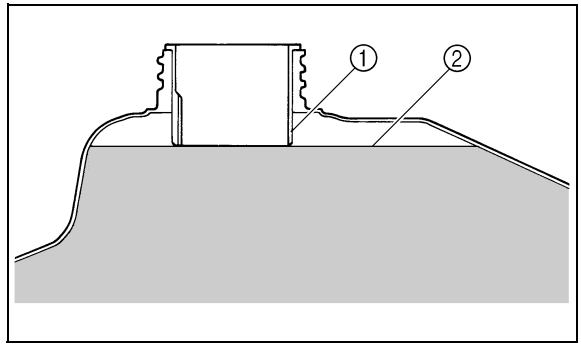
CAUTION:

Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.

Your Yamaha engine has been designed to use premium unleaded gasoline with a pump octane number ([R+M]/2) of 91 or higher, or research octane number of 95 or higher. If knocking or pinging occurs, use a different brand of gasoline. Unleaded fuel will give you longer spark plug life and reduced maintenance cost.

Gasohol

There are two types of gasohol; gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if ethanol content does not exceed 10%. Gasohol containing methanol is not recommended by Yamaha because it may cause fuel system damage or vehicle performance problems.



1. Fuel tank filler tube
2. Fuel level

⚠ WARNING

POTENTIAL HAZARD

Improper care when refueling.

WHAT CAN HAPPEN

Fuel can spill, which can cause a fire and severe injury.

Fuel expands when it heats up. If the fuel tank is overfilled, fuel could spill out due to heat from the engine or the sun.

HOW TO AVOID THE HAZARD

Do not overfill the fuel tank. Be careful not to spill fuel, especially on the engine or exhaust pipe. Wipe up any spilled fuel immediately. Be sure the fuel tank cap is closed securely.

Do not refuel right after the engine has been running and is still very hot.

EBU10842

Engine oil

Make sure the engine oil is at the specified level. Add oil as necessary. (See page 8-7.)

CAUTION:

- **In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERVING II" or higher.**
- **Make sure that no foreign material enters the crankcase.**

Recommended engine oil type and quantity:
See page 10-2.

EBU12530

Coolant

Check the coolant level in the coolant reservoir when the engine is cold. (The coolant level will vary with engine temperature.) The coolant level is satisfactory if it is between the minimum and maximum level marks on the coolant reservoir. If the coolant level is at or below the minimum level mark, add distilled water to bring the level up to maximum level mark. Change the coolant every two years. (See pages 8-13–8-17 for details.)

CAUTION:

Hard water or salt water is harmful to the engine. You may use soft water if you cannot get distilled water.

Coolant reservoir capacity
(up to the maximum level mark):
0.29 L (0.26 Imp qt, 0.31 US qt)

⚠ WARNING

POTENTIAL HAZARD

Removing the radiator cap when the engine and radiator are still hot.

WHAT CAN HAPPEN

You could be burned by hot fluid and steam blown out under pressure.

HOW TO AVOID THE HAZARD

Wait for the engine to cool before removing the radiator cap. Always use a thick rag over the cap. Allow any remaining pressure to escape before completely removing the cap.

EBU00498

Chain

Check the general condition of the chain and check the chain slack before every ride. Lubricate and adjust the chain as necessary. (See pages 8-39–8-42 for details.)

EBU01083

Throttle lever

Check to see that the throttle lever operates correctly. It must open smoothly and spring back to the idle position when released. Have a Yamaha dealer repair as necessary for proper operation.

EBU01162

Fittings and fasteners

Always check the tightness of chassis fittings and fasteners before a ride. Take the machine to a Yamaha dealer or refer to the Service Manual for correct tightening torque.

EBU01003

Lights

Check the headlights and tail/brake light to make sure they are in working condition. Repair as necessary for proper operation.

EBU01170

Switches

Check the operation of all switches. Have a Yamaha dealer repair as necessary for proper operation.

EBU00157

Tires

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV with improper tires, or with improper or uneven tire pressure.

WHAT CAN HAPPEN

Use of improper tires on this ATV, or operation of this ATV with improper or uneven tire pressure, may cause loss of control, increasing your risk of accident.

HOW TO AVOID THE HAZARD

1. **The tires listed below have been approved by Yamaha Motor Co., Ltd. for this model. Other tire combinations are not recommended.**

	Manufacturer	Size	Type
Front	DUNLOP	AT21 × 7-10	KT331A Radial
Rear	DUNLOP	AT20 × 10-9	KT355 Radial

2. **The tires should be set to the recommended pressure:**

- **Recommended tire pressure**

Front 30 kPa (0.30 kgf/cm^2, 4.4 psi)
Rear 35 kPa (0.35 kgf/cm^2, 5.0 psi)

- **Check and adjust tire pressures when the tires are cold.**
- **Tire pressures must be equal on both sides.**

3. **Tire pressure below the minimum specified could cause the tire to dislodge from the rim under severe riding conditions.**
   The following are minimums:

Front 27 kPa (0.27 kgf/cm^2, 3.9 psi)
Rear 32 kPa (0.32 kgf/cm^2, 4.5 psi)

4. Use no more than the following pressures when seating the tire beads.

Front 250 kPa (2.5 kgf/cm^2, 36 psi)

Rear 250 kPa (2.5 kgf/cm^2, 36 psi)

Higher pressures may cause the tire to burst. Inflate the tires very slowly and carefully. Fast inflation could cause the tire to burst.

EBU00159

How to measure tire pressure

Use the low-pressure tire gauge.

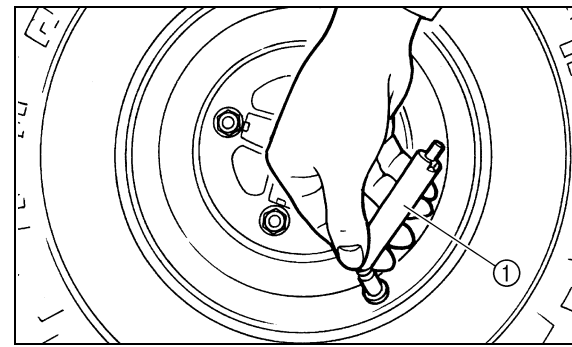
NOTE:

The low-pressure tire gauge is included as standard equipment. Make two measurements of the tire pressure and use the second reading. Dust or dirt in the gauge could cause the first reading to be incorrect.

Set pressure with tires cold.

Set tire pressures to the following specifications:

	Recommended pressure	Minimum	Maximum
Front	30 kPa (0.30 kgf/cm^2, 4.4 psi)	27 kPa (0.27 kgf/cm^2, 3.9 psi)	33 kPa (0.33 kgf/cm^2, 4.7 psi)
Rear	35 kPa (0.35 kgf/cm^2, 5.0 psi)	32 kPa (0.32 kgf/cm^2, 4.5 psi)	38 kPa (0.38 kgf/cm^2, 5.4 psi)

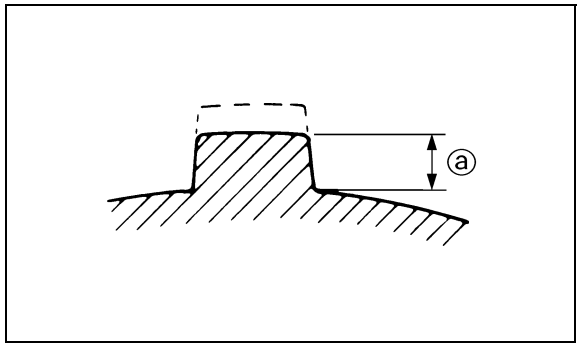


1. Low-pressure tire gauge

EBU00160

Tire wear limit

When the tire groove decreases to 3 mm (0.12 in) due to wear, replace the tire.



a. Tire wear limit

EBU00161

OPERATION

⚠ WARNING

Indicates a potential hazard that could result in serious injury or death.

⚠ WARNING

POTENTIAL HAZARD

Operating ATV without being familiar with all controls.

WHAT CAN HAPPEN

Loss of control, which could cause an accident or injury.

HOW TO AVOID THE HAZARD

Read the Owner's Manual carefully. If there is a control or function you do not understand, ask your Yamaha dealer.

EBU13911

Starting a cold engine

⚠ WARNING

POTENTIAL HAZARD

Freezing control cables in cold weather.

WHAT CAN HAPPEN

You could be unable to control the ATV, which could lead to an accident or collision.

HOW TO AVOID THE HAZARD

When riding in cold weather, always make sure all control cables work smoothly before you begin riding.

1. Set the parking brake.
2. Turn the fuel cock to "ON".
3. Turn the main switch to "ON" and the engine stop switch to "RUN".
4. Shift the transmission into neutral.

NOTE:

This model is equipped with an ignition circuit cut-off system. The engine can be started under the following conditions.

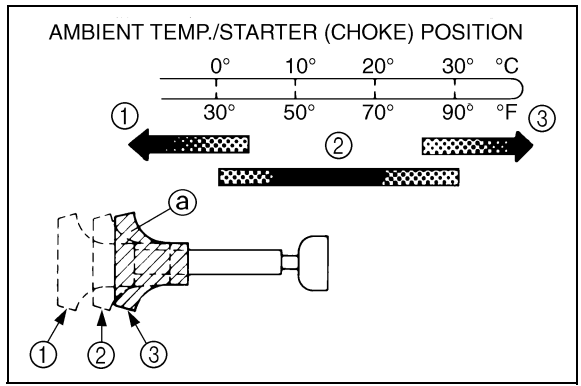
- When the transmission is in neutral. At this time the neutral indicator light should come on. If the light does not come on, ask a Yamaha dealer to inspect it.
- When the clutch is disengaged with the transmission in any position. However, it is recommended to shift into neutral before starting the engine.

5. Use the starter (choke) in reference to the figure:

Position ①: Cold engine start-
ambient temperature below 5 °C (40 °F).

Position ②: Cold engine start-
ambient temperature at 0 °C (30 °F)–30 °C (90 °F) and warming up position.

Position ③: Cold engine start-
ambient temperature above 25 °C (80 °F) and warm engine start position.



1. Fully open
2. Half open
3. Closed
a. Starter (choke)

6. Completely close the throttle lever and start the engine by pushing the start switch.

NOTE:

If the engine fails to start, release the start switch, then push it again. Pause a few seconds before the next attempt. Each cranking should be as short as possible to preserve battery energy. Do not crank the engine more than 10 seconds on each attempt.

7. If the engine is started with the starter (choke) in position ①, the starter (choke) should be returned to position ② to warm up the engine. If the engine is started with the starter (choke) in position ②, keep the starter (choke) in this position to warm up the engine.
8. Continue warming up the engine until it idles smoothly and return the starter (choke) to position ③ before riding.

CAUTION:

See the "Engine break-in" section prior to operating the engine for the first time.

EBU00180

Starting a warm engine

To start a warm engine, refer to the “Starting a cold engine” section. The starter (choke) should not be used. The throttle should be opened slightly.

EBU01820

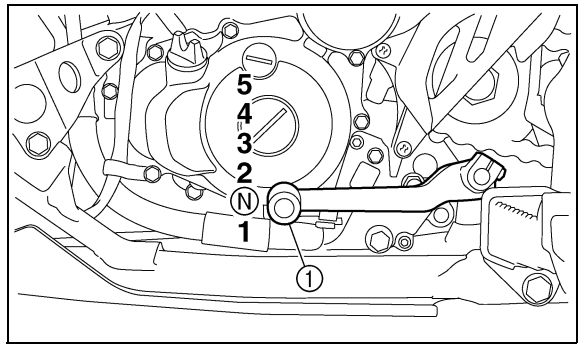
Warming up

To get maximum engine life, always warm up the engine before starting off. Never accelerate hard with a cold engine! To see whether or not the engine is warm, check if it responds to the throttle normally with the starter (choke) turned off.

EBU01981

Shifting

This model has a 5-speed forward transmission. The transmission allows you to control the amount of power you have available at a given speed or for starting, accelerating, climbing hills, etc. To shift into neutral, return the throttle lever to its original position, apply the clutch and repeatedly depress the shift pedal until it stops. When it stops, it will be in first gear. Raise the pedal slightly to neutral.



1. Shift pedal
N. Neutral position

CAUTION:

- **Do not coast for long periods with the engine off, and do not tow the machine a long distance. Even in neutral position, the transmission is only properly lubricated when the engine is running. Inadequate lubrication may cause damage.**
- **Always use the clutch when changing gears. The engine, transmission and drive train are not designed to withstand the shock of forced shifting and can be damaged by shifting without the clutch.**

EBU14190

To start out and accelerate:

1. Release the throttle lever, and then release the parking brake.

CAUTION:

Always close the throttle while shifting gears. Otherwise, damage to the engine and drive train may result.

2. Pull the clutch lever to disengage the clutch.
3. Shift into first gear.
4. Open the throttle gradually and at the same time, release the clutch lever slowly.
5. Once the machine has attained adequate speed, release the throttle, and at the same time, quickly pull in the clutch lever.
6. Shift into second gear. (be careful not to shift into neutral)
7. Open the throttle part way and gradually release the clutch lever.
8. Follow the same procedure when shifting to the next higher gear.

⚠ WARNING

POTENTIAL HAZARD

Opening the throttle abruptly or releasing the clutch lever too quickly.

WHAT CAN HAPPEN

The machine could wheelie. This would increase the chance of an accident, including overturn.

HOW TO AVOID THE HAZARD

Open the throttle gradually.

Release the clutch lever gradually.

EBU00207

To decelerate:

When slowing down or stopping, release the throttle and apply the brakes smoothly and evenly. As you slow down, shift to a lower gear. Be sure that the engine has sufficiently slowed before engaging a lower gear. Improper use of the brakes or shifting can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

⚠ WARNING

POTENTIAL HAZARD

Engaging a lower gear when the engine speed is too high.

WHAT CAN HAPPEN

The wheels could stop rotating. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.

HOW TO AVOID THE HAZARD

Make sure the engine has sufficiently slowed before shifting to a lower gear.

EBU02092

Engine break-in

There is never a more important period in the life of your machine than the period between zero and 20 hours.

For this reason, we ask that you carefully read the following material. Because the engine is brand new, you must not put an excessive load on it for the first several hours of running. During the first 20 hours, the various parts in the engine wear and polish themselves to the correct operating clearances.

During this period, prolonged full throttle operation or any condition which might result in excessive engine heating must be avoided. However, momentary (2–3 seconds maximum) full throttle operation under load does not harm the engine.

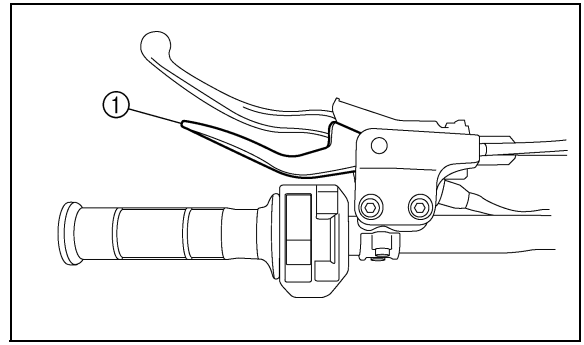
Each full throttle acceleration sequence should be followed with a substantial rest period for the engine by cruising at lower r/min so the engine can rid itself of the temporary build up of heat.
If any abnormality is noticed during this period, consult a Yamaha dealer.

0–10 hours:
Avoid continuous operation above half throttle. Allow a cooling off period of five to ten minutes after every hour of operation. Vary the speed of the machine from time to time. Do not operate it at one set throttle position.

10–20 hours:
Avoid prolonged operation above 3/4 throttle. Rev the machine freely through the gears but do not use full throttle at any time.

After break-in:
Avoid prolonged full throttle operation. Vary speeds occasionally.

EBU00211
Parking
When parking, stop the engine and shift into neutral. Turn the fuel cock to “OFF” and apply the parking brake.



1. Locked position

EBU14200

Parking on a slope

⚠ WARNING

POTENTIAL HAZARD

Parking on a hill or other incline.

WHAT CAN HAPPEN

The ATV could roll out of control, increasing the chance of an accident.

HOW TO AVOID THE HAZARD

Avoid parking on hills or other inclines. If you must park on an incline, put the machine in low gear, apply the parking brake, and block the front and rear wheels with rocks or other objects.

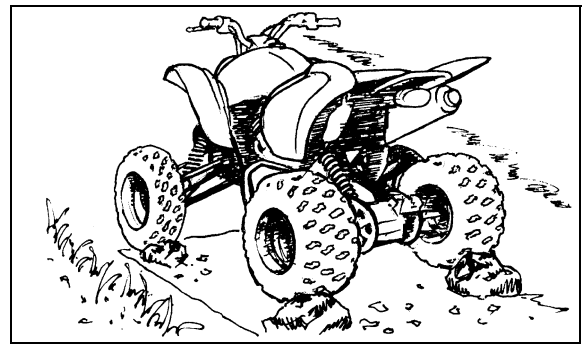
Do not park the ATV at all on hills that are so steep you could not walk up them easily.

1. Bring the machine to a stop by applying the front brake.
2. With the front and rear brake applied, pull the clutch lever, shift into the neutral position, and then apply the parking brake.
3. Stop the engine by setting the engine stop switch to “OFF”.
4. With the front and rear brakes applied, pull the clutch lever, shift into 1st gear, and then slowly release the clutch lever, brake lever and brake pedal.

NOTE:

Make sure that the neutral indicator light goes off.

5. Turn the key to “OFF”.



EBU00221

Accessories and loading

EBU00222

Accessories

Accessories can affect the handling and control of your ATV. Keep the following in mind when considering an accessory or operating an ATV which has accessories.

- Choose only accessories designed for your ATV. Your Yamaha dealer has a variety of genuine Yamaha accessories. Other accessories may also be available on the market. However, it is not possible for Yamaha to test all non-Yamaha accessories, nor have any control over the quality or suitability of them. Choose a genuine Yamaha accessory, or one that is equivalent in design and quality.
- Accessories should be rigidly and securely mounted. An accessory which can shift position or come off while you are riding could affect your ability to control the ATV.
- Do not mount an accessory where it could interfere with your ability to control the ATV. Examples include (but are not limited to) a heavy or bulky object attached to the handlebars which could make steering difficult, an accessory that limits your ability to move around on the seat, or one that limits your view.
- Use extra caution when riding an ATV with accessories. The ATV may handle differently than it does without accessories.

EBU00584

Loading

As originally equipped, this ATV is not designed to carry cargo or tow a trailer. If you choose to add accessories so that you can carry cargo or tow a trailer, you must use common sense and good judgment. Keep the following points in mind:

- Never exceed the weight limits shown. An overloaded ATV can be unstable.

MAXIMUM LOADING LIMIT

Vehicle loading limit (total weight of cargo, rider and accessories):
100 kg (220 lb)

- Load cargo on the carriers as close to the center of the vehicle as possible. Put cargo at the rear of the front carrier and at the front of the rear carrier. Center the load from side to side.
- Tie down cargo securely to the carriers. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Ride more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good practice not to exceed 2nd gear whenever you are carrying heavier loads or when towing a trailer.
- Allow more braking distance. A heavier vehicle takes longer to stop.
- Avoid making sharp turns unless at very slow speeds.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the ATV.

⚠ WARNING

POTENTIAL HAZARD

Overloading this ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV.

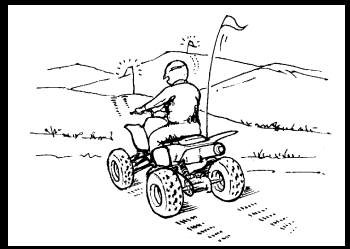
Cargo should be properly distributed and securely attached.

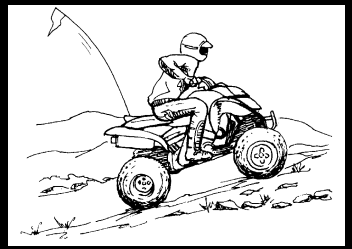
Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

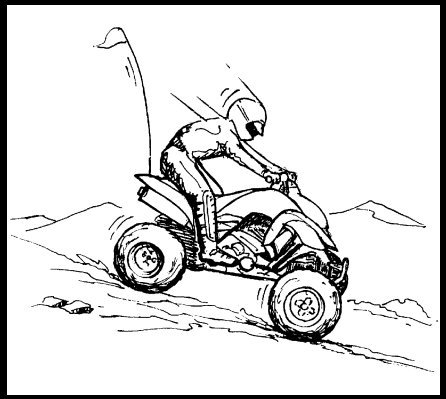
EBU13551*

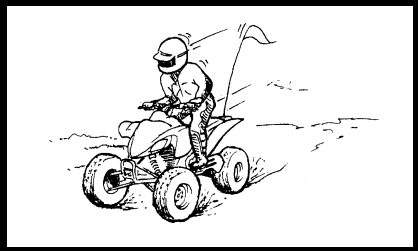
⚠ WARNING

Indicates a potential hazard that could result in serious injury or death.

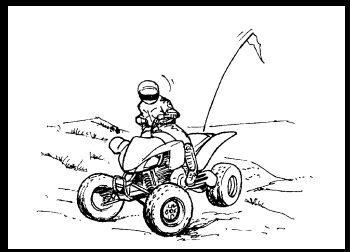


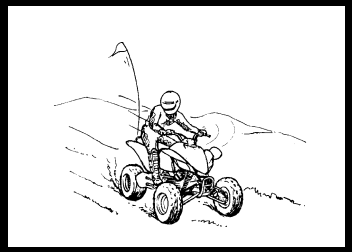


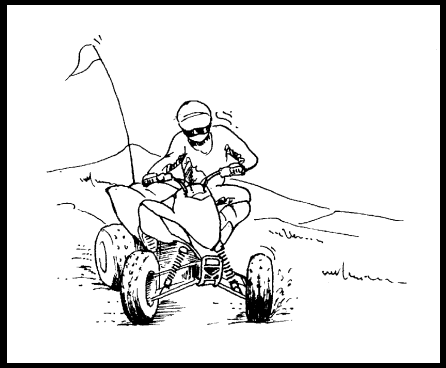




Riding Your ATV







⚠ WARNING

Indicates a potential hazard that could result in serious injury or death.

GETTING TO KNOW YOUR ATV

This ATV is intended for recreational use by experienced operators only. Even though you are an experienced operator of all other all terrain vehicles or motorcycles, riding the ATV requires special skills acquired through practice. Take your time to fully learn techniques before attempting more difficult maneuvers.

Riding your new ATV can be a very enjoyable activity, providing you with hours of pleasure. But it is essential to familiarize yourself with the operation of the ATV to achieve the skill necessary to enjoy riding safely. Before you begin to ride, be sure you have read this Owner's Manual completely and understand the operation of the controls. Pay particular attention to the safety information on pages 2-1–2-7. Please also read all caution and warning labels on your ATV.

RIDE WITH CARE AND GOOD JUDGEMENT

Get training if you are inexperienced.
Beginners should get training from a certified instructor.
Become familiar with this ATV at slow speeds first, even if you are an experienced operator. Do not attempt to operate at maximum performance until you are totally familiar with the ATV's handling and performance characteristics.

⚠ WARNING

POTENTIAL HAZARD
Operating this ATV without proper instruction.
WHAT CAN HAPPEN
The risk of an accident is greatly increased if the operator does not know how to operate the ATV properly in different situations and on different types of terrain.
HOW TO AVOID THE HAZARD
Beginning and inexperienced operators should complete the certified training course offered by Yamaha. They should then regularly practice the skills learned in the course and the operating techniques described in this Owner's Manual.
For more information about the training course, contact an authorized ATV dealer or call 1-800-887-2887.

Riding your ATV requires skills acquired through practice over a period of time.
Take the time to learn the basic techniques well before attempting more difficult maneuvers.

Not recommended for children under 16 years of age.

⚠ WARNING

POTENTIAL HAZARD

Failure to follow the age recommendations for this ATV.

WHAT CAN HAPPEN

Use by children of ATVs that are not recommended for their age can lead to severe injury or death of the child.

HOW TO AVOID THE HAZARD

A child under 16 should never operate an ATV with engine size greater than 90cc.

This ATV is designed to carry operator only–passengers prohibited.

⚠ WARNING

POTENTIAL HAZARD

Carrying a passenger on this ATV.

WHAT CAN HAPPEN

Greatly reduces your ability to balance and control this ATV. Could cause an accident, resulting in harm to you and/or your passenger.

HOW TO AVOID THE HAZARD

Never carry a passenger. The long seat is to allow the operator to shift position as needed during operation. It is not for carrying passengers.

Apparel

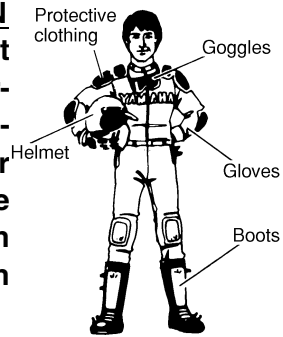
⚠ WARNING

POTENTIAL HAZARD

Operating this ATV without wearing an approved motorcycle helmet, eye protection and protective clothing.

WHAT CAN HAPPEN

Operating without an approved motorcycle helmet increases your chances of a severe head injury or death in the event of an accident.



Operating without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.

Operating without protective clothing increases your chances of severe injury in the event of an accident.

HOW TO AVOID THE HAZARD

Always wear an approved motorcycle helmet that fits properly.

You should also wear:

- **eye protection (goggles or face shield)**
- **gloves**
- **boots**
- **long-sleeved shirt or jacket**
- **long pants**

Do not operate after consuming alcohol or drugs.

Operator's performance capability is reduced by the influence of alcohol or drugs.

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV after consuming alcohol or drugs.

WHAT CAN HAPPEN

Could seriously affect your judgment.

Could cause you to react more slowly.

Could affect your balance and perception.

Could result in an accident.

HOW TO AVOID THE HAZARD

Never consume alcohol or drugs before or while driving this ATV.

Pre-operation checks

Always perform the pre-operation checks listed on page 5-1 before riding for safety and proper care of the ATV.

⚠ WARNING

POTENTIAL HAZARD

Failure to inspect the ATV before operating. Failure to properly maintain the ATV.

WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always inspect your ATV each time you use it to make sure the ATV is in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV with improper tires, or with improper or uneven tire pressure.

WHAT CAN HAPPEN

Use of improper tires on this ATV, or operation of this ATV with improper or uneven tire pressure, may cause loss of control, increasing your risk of an accident.

HOW TO AVOID THE HAZARD

Always use the size and type tires specified in the Owner's Manual for this vehicle on pages 5-9–5-10.

Always maintain proper tire pressure as described in the Owner's Manual on page 5-10.

⚠ WARNING

Indicates a potential hazard that could result in serious injury or death.

Do not operate at speeds too fast for your skills or the conditions.

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV at speeds too fast for your skills or the conditions.

WHAT CAN HAPPEN

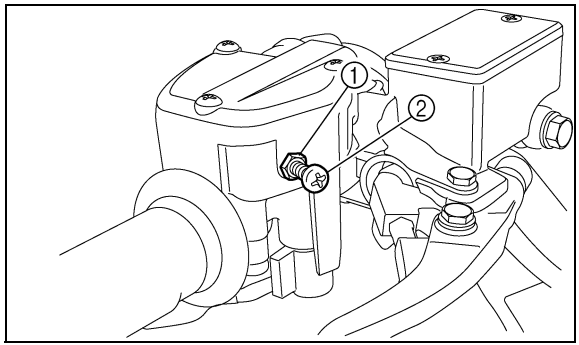
Increases your chances of losing control of the ATV, which can result in an accident.

HOW TO AVOID THE HAZARD

Always go at a speed that is proper for the terrain, visibility and operating conditions, and your experience.

Speed limiter

For riders inexperienced with this model, this model is equipped with a speed limiter in the throttle lever housing. The speed limiter limits the power and top speed of the ATV. Turning the adjusting screw in decreases the top speed, and turning it out increases the top speed. (See page 4-6 for details.)



1. Locknut
2. Adjusting screw

Loading and accessories

As originally equipped, this ATV is not designed to carry cargo or tow a trailer. If you choose to add accessories so that you can carry cargo or tow a trailer, you must use common sense and good judgment.

Use extra caution when riding the ATV with additional loads, such as accessories or cargo. The ATV's handling may be adversely affected. Reduce your speed when adding additional loads.

MAXIMUM LOADING LIMIT

Vehicle loading limit (total weight of rider, cargo and accessories):

100 kg (220 lb)

⚠ WARNING

POTENTIAL HAZARD

Overloading this ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV.

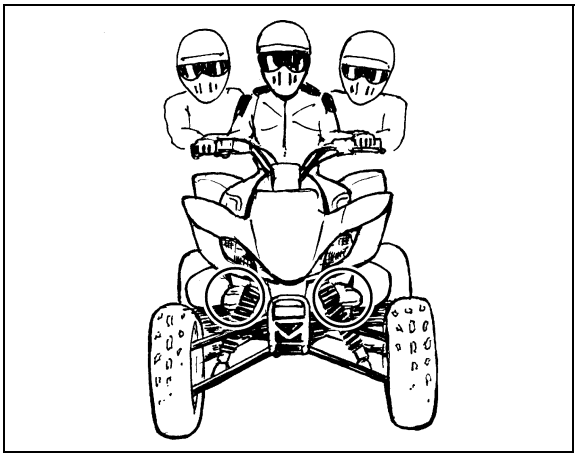
Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

Always follow the instructions in your Owner's Manual for carrying cargo or pulling a trailer.

During operation

Always keep your feet on the footboards during operation. Otherwise your feet may contact the rear wheels.



⚠ WARNING

POTENTIAL HAZARD

Removing hands from handlebars or feet from footboards during operation.

WHAT CAN HAPPEN

Removing even one hand or foot can reduce your ability to control the ATV or could cause you to lose your balance and fall off of the ATV. If you remove a foot from a footboard, your foot or leg may come into contact with the rear wheels, which could injure you or cause an accident.

HOW TO AVOID THE HAZARD

Always keep both hands on the handlebars and both feet on the footboards of your ATV during operation.

Avoid wheelies and jumping. You may lose control of the ATV or overturn.

⚠ WARNING

POTENTIAL HAZARD

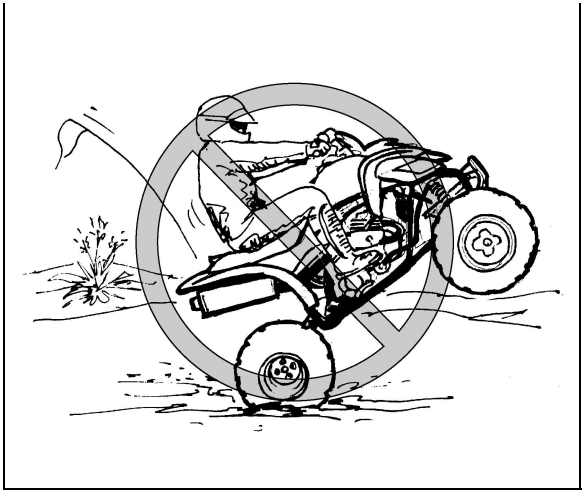
Attempting wheelies, jumps, and other stunts.

WHAT CAN HAPPEN

Increases the chance of an accident, including an overturn.

HOW TO AVOID THE HAZARD

Never attempt stunts, such as wheelies or jumps. Don't try to show off.



Modifications

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situations could lead to an accident.

HOW TO AVOID THE HAZARD

Never modify this ATV through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine Yamaha or equivalent components designed for use on this ATV and should be installed and used according to instructions. If you have questions, consult an authorized ATV dealer.

Exhaust system

The exhaust system on the ATV is very hot during and following operation. To prevent burns, avoid touching the exhaust system. Park the ATV in a place where pedestrians or children are not likely to touch it.

⚠ WARNING

POTENTIAL HAZARD

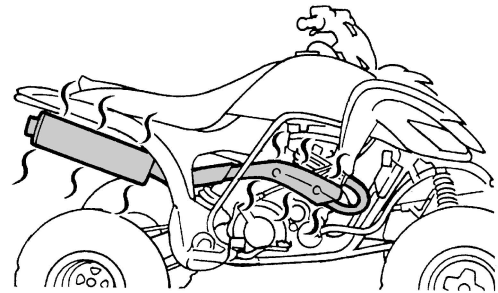
Hot exhaust system.

WHAT CAN HAPPEN

Dry grass or brush or other combustible material accumulated around the engine area could catch fire. Someone touching the exhaust system during or after operation could be burned.

HOW TO AVOID THE HAZARD

Do not operate, idle, or park the ATV in dry grass or other dry ground cover. Keep the engine area free of dry grass, brush, or other combustible material. Do not touch the hot exhaust system. Do not park the ATV in a place where others might be likely to touch it.



BE CAREFUL WHERE YOU RIDE

This ATV is designed for off-road use only. Riding on paved surfaces can cause loss of control.

⚠ WARNING

POTENTIAL HAZARD

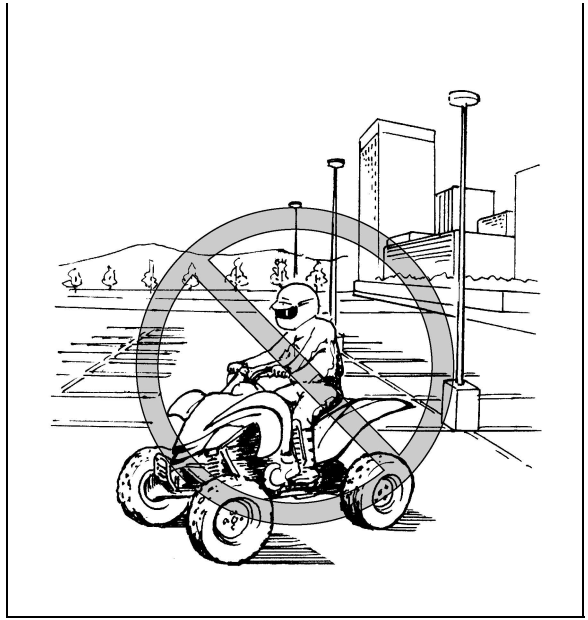
Operating this ATV on paved surfaces.

WHAT CAN HAPPEN

ATVs are designed for off-road use only. Paved surfaces may seriously affect handling and control of the ATV, and may cause the vehicle to go out of control.

HOW TO AVOID THE HAZARD

Always avoid paved surfaces, including sidewalks, driveways, parking lots and streets.



Do not ride on any public road, street, or highway. Riding on public roads can result in collisions with other vehicles.

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV on public streets, roads or highways.

WHAT CAN HAPPEN

You can collide with another vehicle.

HOW TO AVOID THE HAZARD

Never operate this ATV on any public street, road or highway, even a dirt or gravel one.

In many states it is illegal to operate ATVs on public streets, roads and highways.

Know the terrain where you ride. Ride cautiously in unfamiliar areas. Stay alert for **holes, rocks, or roots** in the terrain, and **other hidden hazards** which may cause the ATV to upset.

⚠ WARNING

POTENTIAL HAZARD

Failure to use extra care when operating this ATV on unfamiliar terrain.

WHAT CAN HAPPEN

You can come upon hidden rocks, bumps, or holes, without enough time to react.

Could result in the ATV overturning or going out of control.

HOW TO AVOID THE HAZARD

Go slowly and be extra careful when operating on unfamiliar terrain.

Always be alert to changing terrain conditions when operating the ATV.

⚠ WARNING

POTENTIAL HAZARD

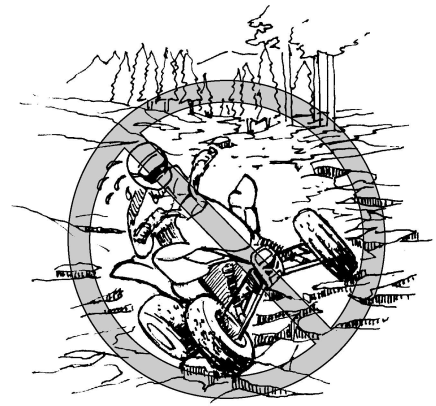
Failure to use extra care when operating on excessively rough, slippery or loose terrain.

WHAT CAN HAPPEN

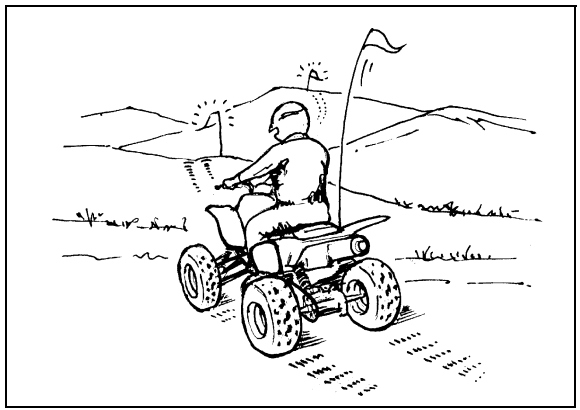
Could cause loss of traction or vehicle control, which could result in an accident, including an overturn.

HOW TO AVOID THE HAZARD

Do not operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain.



When riding in an area where you might not easily be seen, such as desert terrain, mount a caution flag on the ATV. DO NOT use the flag pole bracket as a trailer hitch.



⚠ WARNING

POTENTIAL HAZARD

Operating in areas where you might not be seen by other off-road vehicles.

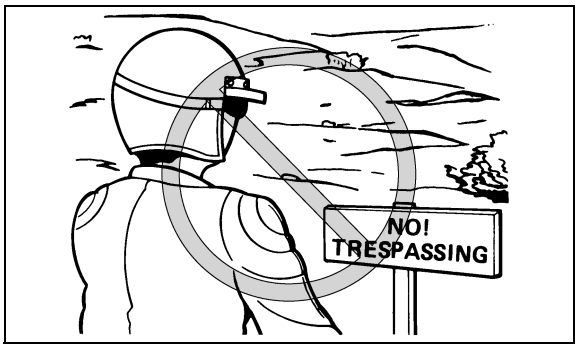
WHAT CAN HAPPEN

You could be in a collision. You could be injured.

HOW TO AVOID THE HAZARD

Always mount a caution flag on the ATV to make you more visible. Watch carefully for other vehicles.

Do not ride in areas posted “no trespassing”. Do not ride on private property without getting permission.



Select a large, flat area off-road to become familiar with your ATV. Make sure that this area is free of obstacles and other riders. You should practice control of the throttle, brakes, shifting procedures, and turning techniques in this area before trying more difficult terrain. Always avoid riding on paved surfaces: the ATV is designed for off-road use only, and handling maneuvers are more difficult to perform on pavement.

Set the parking brake and follow the instructions on page 6-1 to start the engine. Once it has warmed up you are ready to begin riding your ATV. As you get on the ATV, be sure not to accidentally move the shift pedal. Remember that the engine and exhaust pipe will be hot when riding and afterwards; do not allow skin or clothing to come in contact with these components.

With the engine idling, pull the clutch lever to disengage the clutch and shift into 1st gear, and then release the parking brake. Open the throttle gradually, and at the same time, release the clutch lever slowly. Once the ATV has attained adequate speed, release the throttle lever and at the same time, quickly pull in the clutch lever and shift into 2nd gear. Open the throttle part way and gradually release the clutch. Use this same procedure as you move into the higher gears. Be sure to coordinate the use of the throttle and shift pedal properly. If the throttle is applied too abruptly or if the throttle is not released during shifting, or if the shift pedal is not released before applying the throttle, the front wheels may lift off the ground resulting in a loss of directional control. Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.

⚠ WARNING

POTENTIAL HAZARD

Opening the throttle abruptly or releasing the clutch lever too quickly.

WHAT CAN HAPPEN

The ATV could wheelie. This would increase the chance of an accident, including overturn.

HOW TO AVOID THE HAZARD

Open the throttle gradually. Release the clutch lever gradually.

CAUTION:

Do not shift gears without releasing the throttle. Damage to the engine or drive train may occur.

When slowing down or stopping, release the throttle and apply the brakes smoothly and evenly. As you slow down, shift to a lower gear. Be sure that the engine has sufficiently slowed before engaging a lower gear. Improper use of the brakes or shifting can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

⚠ WARNING

POTENTIAL HAZARD

Engaging a lower gear when the engine speed is too high.

WHAT CAN HAPPEN

The wheels could stop rotating. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.

HOW TO AVOID THE HAZARD

Make sure the engine has sufficiently slowed before shifting to a lower gear.

TURNING YOUR ATV

To achieve maximum traction while riding off-road, the two rear wheels are mounted solidly on one axle and turn together at the same speed. Therefore, unless the wheel on the inside of the turn is allowed to slip or lose some traction, the ATV will resist turning. A special turning technique must be used to allow the ATV to make turns quickly and easily. It is essential that this skill be learned first at low speed.

⚠ WARNING

POTENTIAL HAZARD

Turning improperly.

WHAT CAN HAPPEN

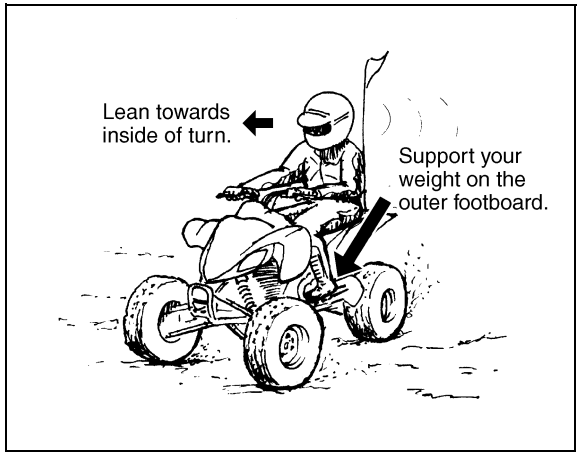
The ATV could go out of control, causing a collision or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for turning as described in this Owner's Manual.

Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at speeds too fast for your skills or the conditions.

As you approach a curve, slow down and begin to turn the handlebars in the desired direction. As you do so, put your weight on the footboard to the outside of the turn (opposite your desired direction) and lean your upper body into the turn. Use the throttle to maintain an even speed through the turn. This maneuver will let the wheel on the inside of the turn slip slightly, allowing the ATV to make the turn properly.



This procedure should be practiced at slow speed many times in a large off-road area with no obstacles. If an incorrect technique is used, your ATV may continue to go straight. If the ATV doesn't turn, come to a stop and then practice the procedure again. If the riding surface is slippery or loose, it may help to position more of your weight over the front wheels by moving forward on the seat.

Once you have learned this technique you should be able to perform it at higher speeds or in tighter curves.

Improper riding procedures such as abrupt throttle changes, excessive braking, incorrect body movements, or too much speed for the sharpness of the turn may cause the ATV to tip. If the ATV begins to tip over to the outside while negotiating a turn, lean more to the inside. It may also be necessary to gradually let off on the throttle and steer to the outside of the turn to avoid tipping over.

Remember: Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.

CLIMBING UPHILL

Use proper riding techniques to avoid vehicle overturns on hills. Be sure that you can maneuver your ATV well on flat ground before attempting any incline and then practice riding first on gentle slopes. Try more difficult climbs only after you have developed your skill. In all cases avoid inclines with slippery or loose surfaces, or obstacles that might cause you to lose control.

⚠ WARNING

POTENTIAL HAZARD

Operating on excessively steep hills.

WHAT CAN HAPPEN

The vehicle can overturn more easily on extremely steep hills than on level surfaces or small hills.

HOW TO AVOID THE HAZARD

Never operate the ATV on hills too steep for the ATV or for your abilities.

Practice on smaller hills before attempting large hills.

It is important when climbing a hill to make sure that your weight is transferred forward on the ATV. This can be accomplished by leaning forward and, on steeper inclines, standing on the footboards and leaning forward over the handlebars.

⚠ WARNING

POTENTIAL HAZARD

Climbing hills improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for climbing hills as described in this Owner's Manual.

Always check the terrain carefully before you start up any hill.

Never climb hills with excessively slippery or loose surfaces.

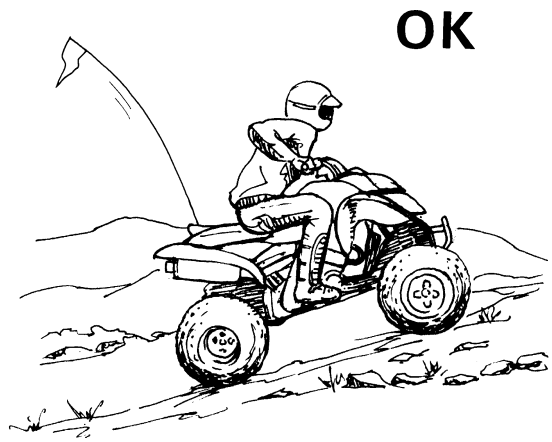
Shift your weight forward.

Never open the throttle suddenly or make sudden gear changes.

The ATV could flip over backwards.

Never go over the top of any hill at high speed.

An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.



If you are climbing a hill and you find that you have not properly judged your ability to make it to the top, you should turn the ATV around while you still have forward motion (provided you have the room to do so) and go down the hill.

⚠ WARNING

POTENTIAL HAZARD

Improperly crossing hills or turning on hills.

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in the Owner's Manual on level ground. Be very careful when turning on any hill.

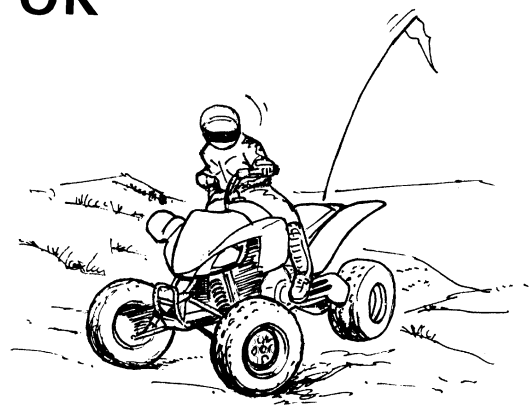
Avoid crossing the side of a steep hill if possible.

When crossing the side of a hill:

Always follow proper procedures as described in the Owner's Manual.

Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV.

OK



If your ATV has stalled or stopped and you believe you can continue up the hill, restart carefully to make sure you do not lift the front wheels which could cause you to lose control. If you are unable to continue up the hill, dismount the ATV on the uphill side. Physically turn the ATV around and then descend the hill.

If you start to roll backwards, DO NOT use the rear brake to stop or try to put the ATV in gear. The ATV could easily tip over backwards. Instead, apply the front brake gradually, or dismount the ATV immediately on the uphill side.

⚠ WARNING

POTENTIAL HAZARD

Stalling, rolling backwards or improperly dismounting while climbing a hill.

WHAT CAN HAPPEN

Could result in the ATV overturning.

HOW TO AVOID THE HAZARD

Use proper gear and maintain steady speed when climbing a hill.

If you lose all forward speed:

Keep weight uphill.

Apply the brakes.

Lock the parking brake, after you are stopped.

If you begin rolling backwards:

Keep weight uphill.

Never apply the rear brake while rolling backwards.

Apply the front brake.

When fully stopped, apply the rear brake as well, and then lock the parking brake.

Dismount on uphill side or to a side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in the Owner's Manual.

RIDING DOWNHILL

When riding your ATV downhill, shift your weight as far to the rear and uphill side of the ATV as possible. Move back on the seat and sit with your arms straight. Choose a low gear which will allow the engine compression to do most of the braking for you. Improper braking may cause a loss of traction.

Use caution while descending a hill with loose or slippery surfaces. Braking ability and traction may be adversely affected by these surfaces. Improper braking may also cause a loss of traction.

Whenever possible, ride your ATV straight downhill. Avoid sharp angles which could allow the ATV to tip or roll over. Carefully choose your path and ride no faster than you will be able to react to obstacles which may appear.

⚠ WARNING

POTENTIAL HAZARD

Going down a hill improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

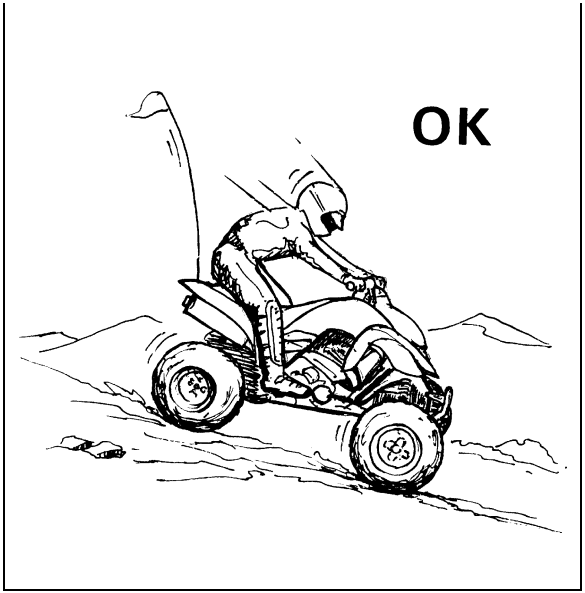
HOW TO AVOID THE HAZARD

Always follow proper procedures for going down hills as described in this Owner's Manual. Note: a special technique is required when braking as you go down a hill.

Always check the terrain carefully before you start down any hill.

Shift your weight backward. Never go down a hill at high speed.

Avoid going down a hill at an angle that would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.


OK

CROSSING A SLOPE

Traversing a sloping surface on your ATV requires you to properly position your weight to maintain proper balance. Be sure that you have learned the basic riding skills on flat ground before attempting to cross a sloping surface. Avoid slopes with slippery surfaces or rough terrain that may upset your balance.

As you travel across a slope, lean your body in the uphill direction. It may be necessary to correct the steering when riding on loose surfaces by pointing the front wheels slightly uphill. When riding on slopes be sure not to make sharp turns either up or down hill.

If your ATV does begin to tip over, gradually steer in the downhill direction if there are no obstacles in your path. As you regain proper balance, gradually steer again in the direction you wish to travel.

⚠ WARNING

POTENTIAL HAZARD

Improperly crossing hills or turning on hills.

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

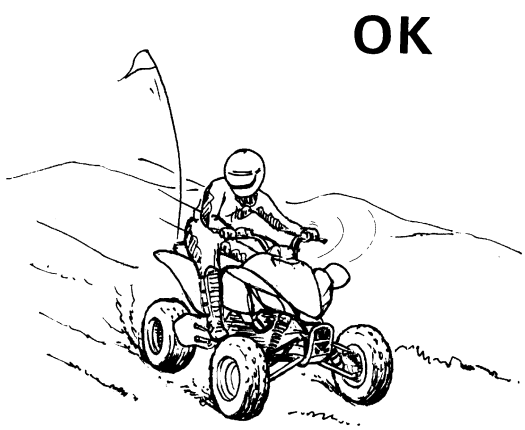
HOW TO AVOID THE HAZARD

Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in the Owner's Manual on level ground. Be very careful when turning on any hill. Avoid crossing the side of a steep hill if possible.

When crossing the side of a hill:

Always follow proper procedures as described in the Owner's Manual.

Avoid hills with excessively slippery or loose surfaces.
Shift your weight to the uphill side of the ATV.



CROSSING THROUGH SHALLOW WATER

The ATV can be used to cross slow moving, shallow water of up to a maximum of 35 cm (14 inches) in depth. Before entering the water, choose your path carefully. Enter where there is no sharp drop off, and avoid rocks or other obstacles which may be slippery or upset the ATV. Drive slowly and carefully.

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV through deep or fast flowing water.

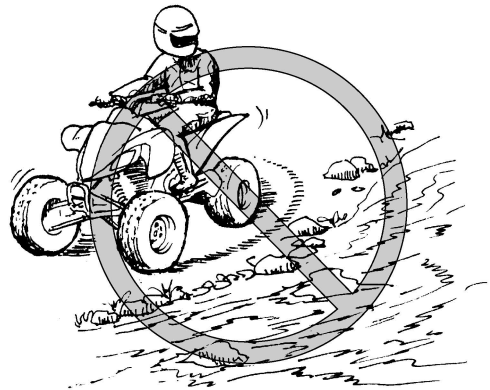
WHAT CAN HAPPEN

Tires may float, causing loss of traction and loss of control, which could lead to an accident.

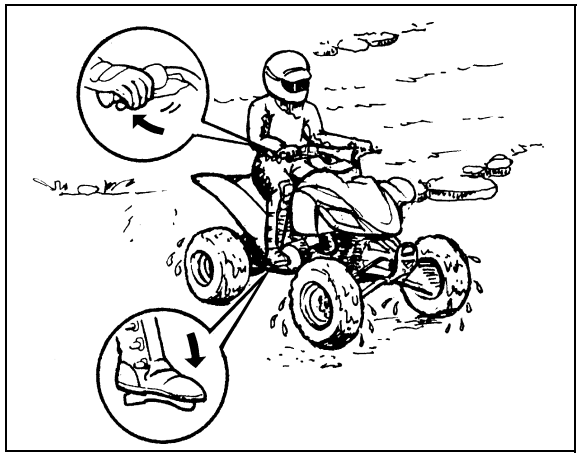
HOW TO AVOID THE HAZARD

Never operate this ATV in fast flowing water or in water deeper than that specified in your Owner's Manual.

Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.

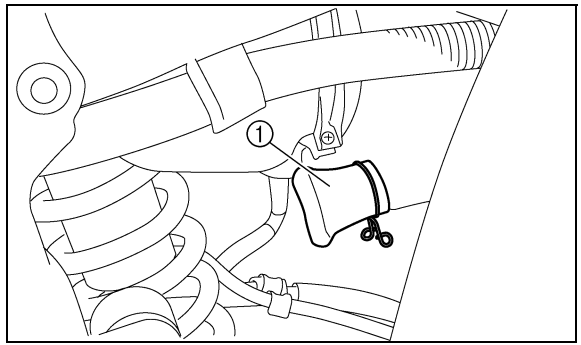


Test your brakes after leaving the water. Do not continue to ride your ATV without verifying that you have regained proper braking ability.



CAUTION:

After riding your ATV in water, be sure to drain the trapped water by removing the check hose at the bottom of the air filter case. Wash the ATV in fresh water if it has been operated in salt water or muddy conditions.



1. Check hose

RIDING OVER ROUGH TERRAIN

Riding over rough terrain should be done with caution. Look out for obstacles which could cause damage to the ATV or could lead to an upset or accident. Be sure to keep your feet firmly mounted on the footboards at all times. Avoid jumping the ATV as loss of control and damage to the ATV may result.

⚠ WARNING

POTENTIAL HAZARD

Improperly operating over obstacles.

WHAT CAN HAPPEN

Could cause loss of control or a collision. Could cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Before operating in a new area, check for obstacles.

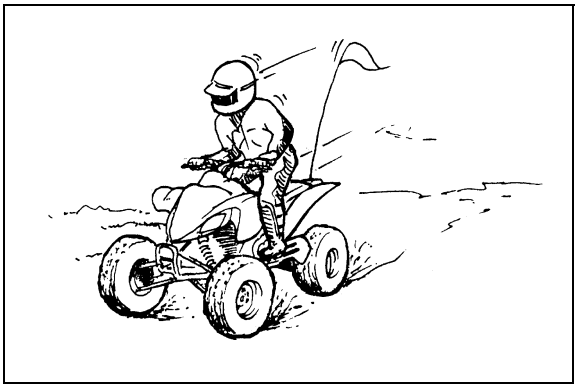
Never attempt to ride over large obstacles, such as large rocks or fallen trees.

When you go over obstacles, always follow proper procedures as described in the Owner's Manual.

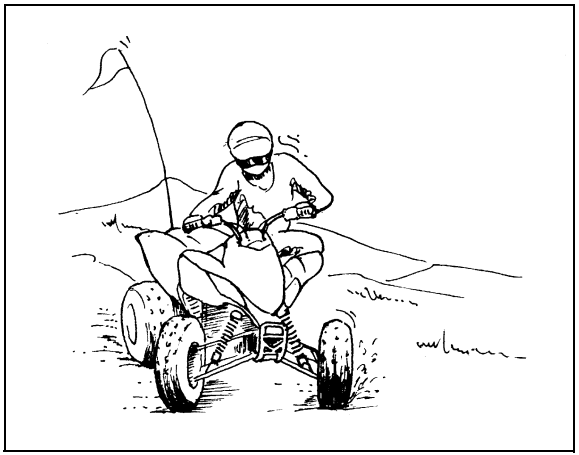
SLIDING AND SKIDDING

Care should be used when riding on loose or slippery surfaces since the ATV may slide. If unexpected and uncorrected, sliding could lead to an accident.

To reduce the tendency for the front wheels to slide in loose or slippery conditions, positioning your weight over the front wheels will sometimes help.



If the rear wheels of your ATV start to slide sideways, control can usually be regained (if there is room to do so) by steering in the direction of the slide. Applying the brakes or accelerating is not recommended until you have corrected the slide.



With practice, over a period of time, skill at controlled sliding can be developed. The terrain should be chosen carefully before attempting such maneuvers, since both stability and control are reduced. Bear in mind that sliding maneuvers should always be avoided on extremely slippery surfaces such as ice, since all control may be lost.

⚠ WARNING

POTENTIAL HAZARD

Skidding or sliding improperly.

WHAT CAN HAPPEN

You may lose control of this ATV. You may also regain traction unexpectedly, which may cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Learn to safely control skidding or sliding by practicing at low speeds and on level, smooth terrain.

On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.

WHAT TO DO IF ...

This section is designed to be a reference guide only. Be sure to read each section on riding techniques completely.

WHAT TO DO ...

- If your ATV doesn't turn when you want it to:
  Bring the ATV to a stop and practice the turning maneuvers again. Be sure you are putting your weight on the footboard to the outside of the turn. Position your weight over the front wheels for better control. (See pages 7-23–7-24.)
- If your ATV begins to tip while turning:
  Lean more into the turn to regain balance. If necessary, gradually let off the throttle and/or steer to the outside of the turn. (See pages 7-23–7-24.)
- If your ATV starts to slide sideways:
  Steer in the direction of the slide if you have the room.
  Applying the brakes or accelerating is not recommended until you have corrected the slide. (See pages 7-38–7-39.)
- If your ATV can't make it up a hill you are trying to climb:
  Turn the ATV around if you still have forward speed. If not, stop, dismount on the uphill side of the ATV and physically turn the ATV around. If the ATV starts to slip backwards DO NOT USE THE REAR BRAKE - the ATV may tip over on top of you. Dismount the ATV on the uphill side. (See pages 7-25–7-29.)

- If your ATV is traversing a sloping surface: Be sure to ride with your weight positioned towards the uphill side of the ATV to maintain proper balance. If the ATV starts to tip, steer down the hill (if there are no obstacles in your way) to regain balance. If you discover that the ATV is going to tip over, dismount on the uphill side. (See pages 7-32–7-33.)
- If your ATV encounters shallow water: Ride slowly and carefully through slow moving water, watching for obstacles. Be sure to let water drain from the ATV and CHECK YOUR BRAKES FOR PROPER OPERATION when you come out of the water. Do not continue to ride your ATV until you have regained adequate braking ability. (See pages 7-34–7-35.)

⚠ WARNING

Indicates a potential hazard that could result in serious injury or death.

EBU00515

PERIODIC MAINTENANCE AND ADJUSTMENT

Periodic inspection, adjustment and lubrication will keep your machine in the safest and most efficient condition possible. Safety is an obligation of the machine owner. The most important points of machine inspection, adjustment and lubrication are explained on the following pages.

⚠ WARNING

POTENTIAL HAZARD

Servicing an engine while it is running.

WHAT CAN HAPPEN

Moving parts can catch clothing or parts of the body, causing injury.

Electrical components can cause shocks or can start fires.

HOW TO AVOID THE HAZARD

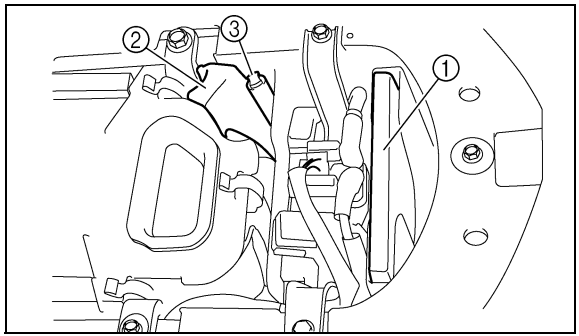
Turn off the engine when performing maintenance unless otherwise specified.

Have a Yamaha dealer perform service if you are not familiar with machine service.

EBU01221

Owner's manual and tool kit

You are recommended to put this owner's manual and low-pressure tire gauge in the vinyl bag and always carry them along with the owner's tool kit under the seat.



1. Owner's manual
2. Owner's tool kit
3. Low-pressure tire gauge

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing your own preventive maintenance and minor repairs. The tools provided in the owner's tool kit are sufficient for this purpose, except that a torque wrench is also necessary to properly tighten nuts and bolts.

NOTE:
If you do not have a torque wrench available during a service operation requiring one, take your machine to a Yamaha dealer to check the torque settings and adjust them as necessary.

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situations could lead to an accident.

HOW TO AVOID THE HAZARD

Never modify this ATV through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine Yamaha or equivalent components designed for use on this ATV and should be installed and used according to instructions. If you have questions, consult an authorized Yamaha ATV dealer.

EBU00261

PERIODIC MAINTENANCE/LUBRICATION

ITEM	ROUTINE	INITIAL			EVERY	
		1 month	3 months	6 months	6 months	1 year
Valves*	• Check valve clearance. • Adjust if necessary.	○		○	○	○
Cooling system	• Check for coolant leakage. • Repair if necessary. • Replace coolant every 24 months.	○	○	○	○	○
Spark plug	• Check condition. • Adjust gap and clean. • Replace if necessary.	○	○	○	○	○
Air filter element	• Clean. • Replace if necessary.	Every 20–40 hours (More often in wet or dusty areas.)				
Carburetor*	• Check starter (choke) operation. • Adjust engine idling speed.		○	○	○	○
Crankcase breather system*	• Check breather hose for cracks or damage. • Replace if necessary.			○	○	○
Exhaust system*	• Check for leakage. • Tighten if necessary. • Replace gasket if necessary.			○	○	○
Spark arrester	• Clean.			○	○	○
Fuel line*	• Check fuel hose for cracks or damage. • Replace if necessary.			○	○	○
Engine oil	• Replace (Warm engine before draining).	○		○	○	○
Engine oil filter element	• Replace.	○		○		○
Drive chain	• Check and adjust slack/alignment/clean/lube.	○	○	○	○	○
Front brake*	• Check free play/operation/fluid leakage/ See NOTE Page 8-4. • Correct if necessary.	○	○	○	○	○
Rear brake*	• Check operation/fluid leakage/See NOTE Page 8-4. • Correct if necessary.	○	○	○	○	○
Clutch*	• Check operation. • Adjust if necessary.	○		○	○	○

ITEM	ROUTINE	INITIAL			EVERY	
		1 month	3 months	6 months	6 months	1 year
Wheels*	• Check balance/damage/runout. • Replace if necessary.	○		○	○	○
Wheel bearings*	• Check bearing assemblies for looseness/damage. • Replace if damaged.	○		○	○	○
Steering system*	• Check operation. • Repair if damaged. • Check toe-in. • Adjust if necessary.	○	○	○	○	○
Front and rear suspension*	• Check operation. • Correct if necessary.			○		○
Upper and lower arm pivot and steering shaft*	• Lubricate every 6 months with lithium-soap-based grease.			○	○	○
Rear arm pivot*	• Lubricate every 6 months with lithium-soap-based grease.			○	○	○
Fittings and fasteners*	• Check all chassis fittings and fasteners. • Correct if necessary.	○	○	○	○	○
Lights and switches*	• Check operation. • Adjust headlight beams.	○	○	○	○	○

* Since these items require special tools, data and technical skills, have a Yamaha dealer perform the service.

NOTE:

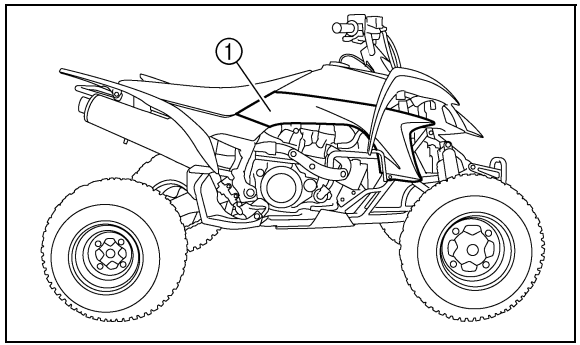
- Recommended brake fluid: DOT4
- Brake fluid replacement:
  - When disassembling the master cylinders or calipers, replace the brake fluid.
    Normally check the brake fluid level and add fluid as required.
  - On the inner parts of the master cylinders and calipers, replace the oil seals every two years.
  - Replace the brake hoses every four years, or if cracked or damaged.

⚠ WARNING

Indicates a potential hazard that could result in serious injury or death.

EBU00807

Panel removal and installation



1. Panel A

The panel illustrated needs to be removed to perform some of the maintenance described in this chapter.

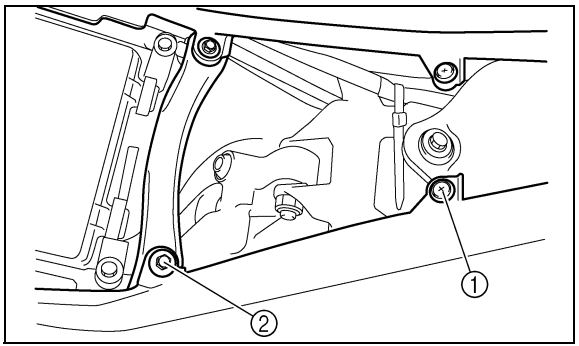
Refer to this section each time the panel has to be removed or installed.

EBU13920

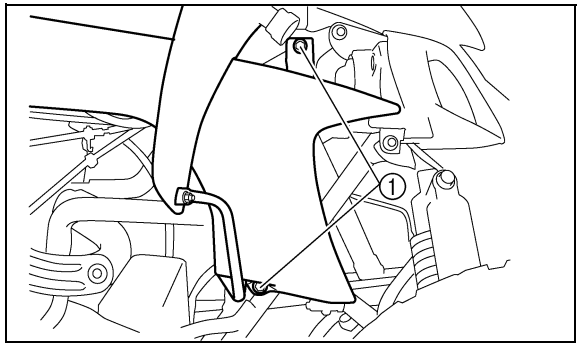
Panel A

To remove

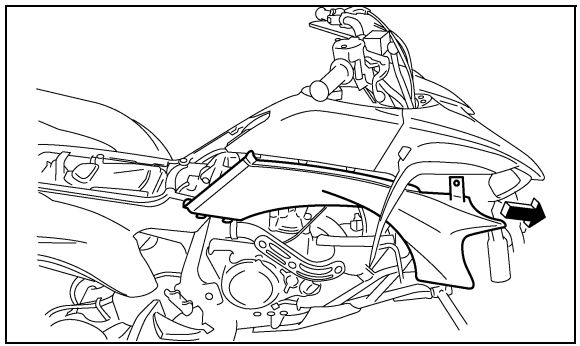
1. Remove the seat. (See page 4-13 for seat removal and installation procedures.)
2. Remove the quick fastener and the bolts, and then remove the panel by pulling it out from the front of the ATV.



1. Quick fastener
2. Bolt



1. Bolt (× 2)

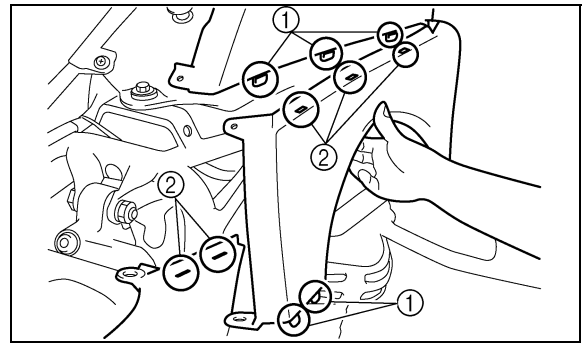


To install

1. Place the panel in the original position, and then install the quick fastener and the bolts.

NOTE:

To install the quick fastener, push the center pin out so that it protrudes from the fastener head, insert the fastener into the panel, and then push the protruding pin in until it is flush with the fastener head.



1. Projection (× 5)
2. Slot (× 5)

2. Install the seat.

EBU13931

Engine oil and oil filter element

The engine oil level should be checked before each ride. In addition, the oil must be changed and the oil filter element replaced at the intervals specified in the periodic maintenance and lubrication chart.

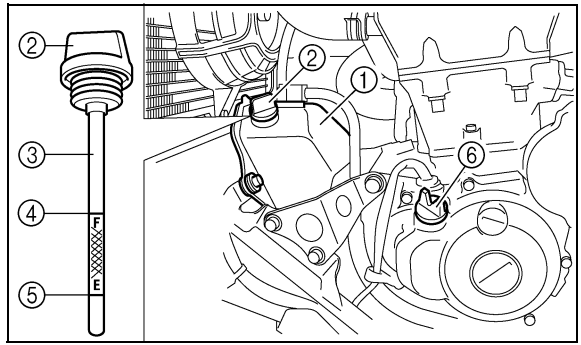
To check the engine oil level

1. Place the ATV on a level surface.
2. Start the engine, warm it up until the engine oil has reached a normal temperature of 40 °C (104 °F), let it continue to idle for ten seconds or more, and then turn the engine off.

NOTE:

To achieve the proper engine oil temperature for an accurate oil level reading, the engine must have first completely cooled down, and then warmed up again for several minutes to normal operating temperature.

3. Remove the engine oil tank filler cap, wipe the dipstick clean with a clean rag, insert it back into the filler hole (without screwing it in), and then remove it again to check the oil level.



1. Engine oil tank 2. Engine oil tank filler cap 3. Dipstick
4. Maximum level mark 5. Minimum level mark
6. Engine oil filler cap

NOTE:

The engine oil should be between the minimum and maximum level marks.

4. If the engine oil is below the minimum level mark, add sufficient oil of the recommended type through the engine oil tank filler hole to raise it to the correct level.

NOTE:

When adding oil, be careful not to overfill the engine oil tank; the oil level rises faster starting from the half-level-portion on the dipstick.

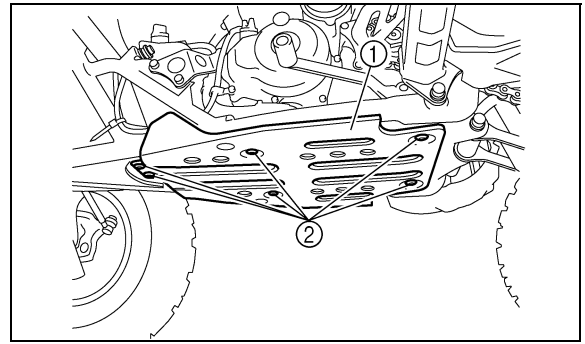
5. Insert the dipstick into the engine oil tank filler hole, and then tighten the engine oil tank filler cap.

CAUTION:

Make sure that the engine oil tank filler cap is securely tightened, otherwise oil may seep out when the engine is running.

To change the engine oil (with or without oil filter element replacement)

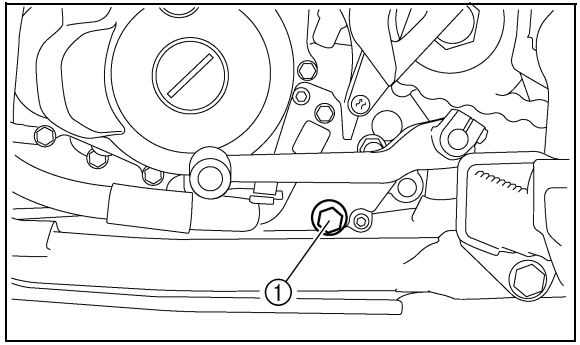
1. Remove the engine guard by removing the bolts.



1. Engine guard 2. Bolt (× 6)

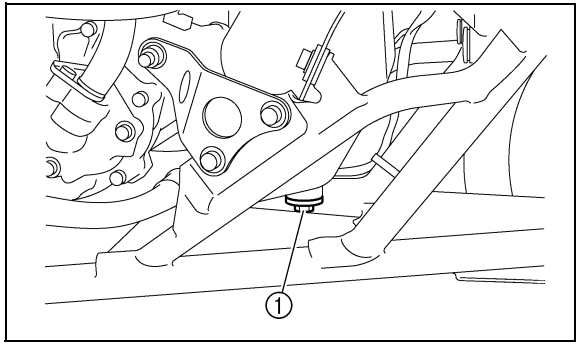
2. Start the engine, warm it up for several minutes, and then turn it off.
3. Place an oil pan under the engine to collect the used oil.

4. Remove the engine oil filler cap and the crankcase engine oil drain bolt.



1. Crankcase engine oil drain bolt

5. Remove the engine oil tank filler cap and the engine oil tank drain bolt.

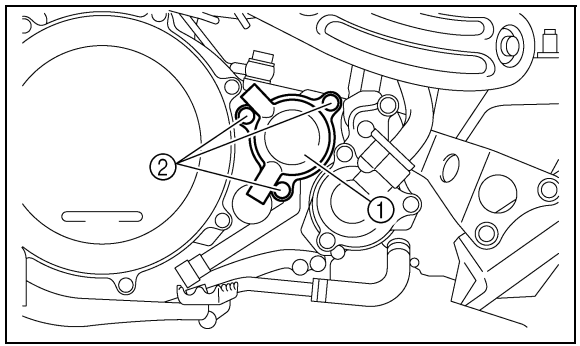


1. Engine oil tank drain bolt

6. Check the washers for damage, and replace if necessary.

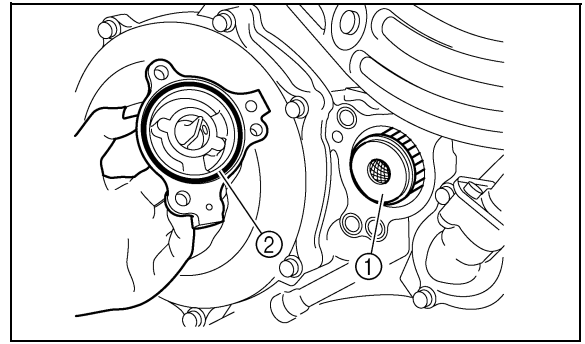
NOTE:
Skip steps 7–10 if the oil filter element is not being replaced.

7. Remove the oil filter element cover by removing the bolts, and then remove the oil filter element.



1. Oil filter element cover 2. Bolt (× 3)

8. Check the O-ring for damage, and replace it if necessary.



1. Oil filter element 2. O-ring

9. Install a new oil filter element and the O-ring.

NOTE:
Make sure that the O-ring is properly seated.

10. Install the oil filter element cover by installing the bolts, and then tighten them to the specified torque.

Tightening torque:
Oil filter element cover bolt:
10 Nm (1.0 m·kgf, 7.2 ft·lbf)

11. Install the crankcase engine oil drain bolt and the engine oil tank drain bolt, and then tighten them to the specified torques.

Tightening torques:
Crankcase engine oil drain bolt:
20 Nm (2.0 m·kgf, 14 ft·lbf)
Engine oil tank drain bolt:
19 Nm (1.9 m·kgf, 14 ft·lbf)

12. Pour the specified amount of recommended engine oil through the engine oil tank filler hole, insert the dipstick, and then tighten the engine oil tank filler cap.
13. Pour the specified amount of recommended engine oil through the engine oil filler hole, and then install and tighten the engine oil filler cap.

Recommended engine oil:
See page 10-2.
Oil quantity:
Without oil filter element replacement:
Quantity in oil tank:
1.55 L (1.36 Imp qt, 1.64 US qt)
Quantity in crankcase:
0.20 L (0.18 Imp qt, 0.21 US qt)
Total amount:
1.75 L (1.54 Imp qt, 1.85 US qt)
With oil filter element replacement:
Quantity in oil tank:
1.55 L (1.36 Imp qt, 1.64 US qt)
Quantity in crankcase:
0.30 L (0.26 Imp qt, 0.31 US qt)
Total amount:
1.85 L (1.63 Imp qt, 1.96 US qt)

CAUTION:

- **In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERVING II" or higher.**
- **Make sure that no foreign material enters the crankcase.**

14. Start the engine, and then let it idle for several minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.
15. Turn the engine off, and then check the oil level and correct it if necessary.
16. Install the engine guard by installing the bolts, and then tighten them to the specified torque.

Tightening torque:
Engine guard bolt:
7 Nm (0.7 m·kgf, 5.1 ft·lbf)

CAUTION:

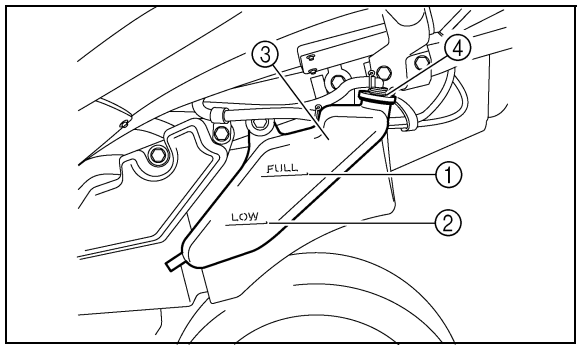
Be sure to apply LOCTITE® to the engine guard bolts before installing them.

EBU10151

Cooling system

1. Check the coolant level in the coolant reservoir when the engine is cold as the coolant level will vary with engine temperature.

NOTE:
The coolant should be between the minimum and maximum level marks.



1. Maximum level mark
2. Minimum level mark
3. Coolant reservoir
4. Coolant reservoir cap

2. If the coolant is at or below the minimum level mark, remove the coolant reservoir cap, and then add coolant or distilled water to raise it to the specified level.

Coolant reservoir capacity
(up to the maximum level mark):
0.29 L (0.26 Imp qt, 0.31 US qt)

CAUTION:

Hard water or salt water is harmful to the engine. You may use soft water if you can't get distilled water.

NOTE:

- If water is added, have a Yamaha dealer check the antifreeze content of the coolant as soon as possible.
- The radiator fan operation is completely automatic. It is switched on or off according to the coolant temperature in the radiator.

If your ATV overheats, see page 8-59 for details.

EBU13940

Changing the coolant

⚠ WARNING

POTENTIAL HAZARD

Removing the radiator cap when the engine and radiator are still hot.

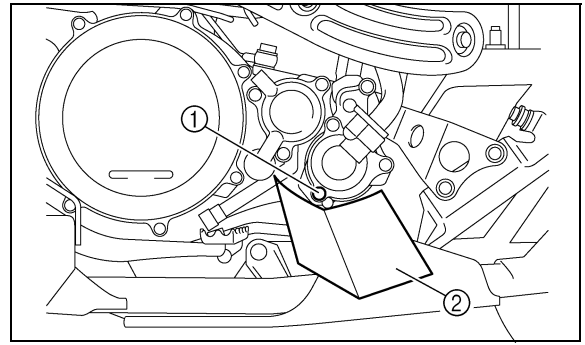
WHAT CAN HAPPEN

You could be burned by hot fluid and steam blown out under pressure.

HOW TO AVOID THE HAZARD

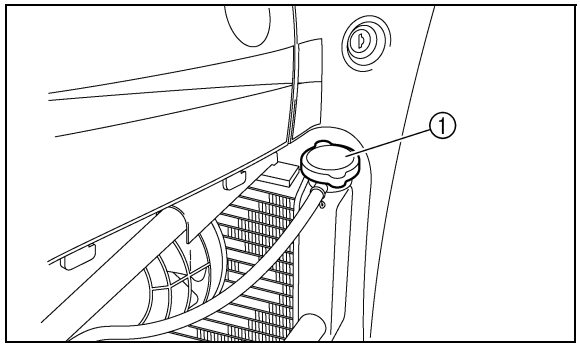
Wait for the engine to cool before removing the radiator cap. Always place a thick rag over the cap. Allow any remaining pressure to escape before completely removing the cap.

1. Place the ATV on a level surface.
2. Remove panel A. (See page 8-5 for panel removal and installation procedures.)
3. Place a container under the engine, and then remove the coolant drain bolt. (Use a trough or a similar object as shown.)



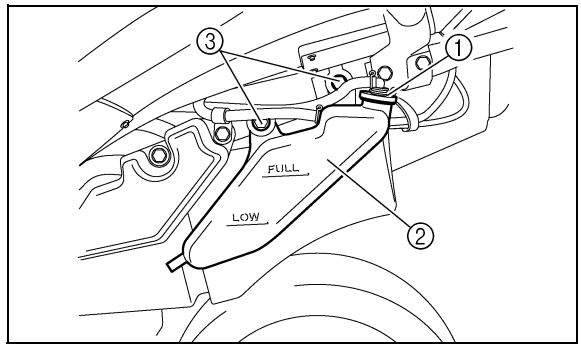
1. Coolant drain bolt
2. Trough

4. Remove the radiator cap.



1. Radiator cap

5. Remove the coolant reservoir by removing the bolts.
6. Remove the coolant reservoir cap, and then turn the coolant reservoir upside down to empty it.



1. Coolant reservoir cap
2. Coolant reservoir
3. Bolt (× 2)

7. After draining the coolant, thoroughly flush the cooling system with clean tap water.
8. Install the coolant reservoir by installing the bolts.

9. Replace the coolant drain bolt washer if it is damaged, install the coolant drain bolt, and then tighten it to the specified torque.

Tightening torque:
Coolant drain bolt:
10 Nm (1.0 m·kgf, 7.2 ft·lbf)

10. Pour the recommended coolant into the radiator until it is full.
11. Pour the recommended coolant into the coolant reservoir to the maximum level mark.

Recommended antifreeze:
High quality ethylene glycol antifreeze containing corrosion inhibitors for aluminum engines.
Antifreeze and water mixing ratio:
1:1
Total amount:
1.3 L (1.14 Imp qt, 1.37 US qt)
Coolant reservoir capacity
(up to the maximum level mark):
0.29 L (0.26 Imp qt, 0.31 US qt)

CAUTION:

Hard water or salt water is harmful to the engine. You may use soft water if you cannot get distilled water.

12. Install the radiator cap and the coolant reservoir cap.

13. Start the engine and let it idle for several minutes. Stop the engine, and then check the coolant level in the radiator. If it is low, add more coolant until it reaches the top of the radiator.
14. Check the coolant level in the reservoir. If it is low, add coolant to the maximum level mark.
15. Start the engine and then check for coolant leakage.

NOTE:
If any leakage is found, have a Yamaha dealer check the cooling system.

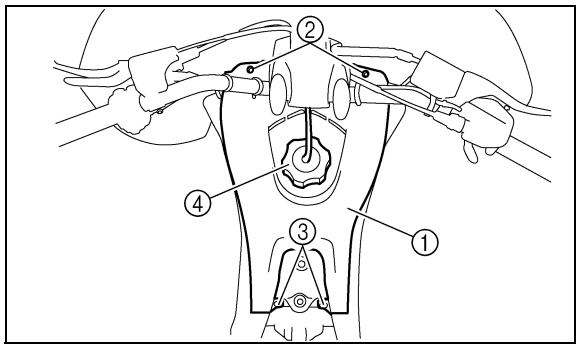
16. Install the panel.

EBU13950

Spark plug inspection

Removal

1. Remove the seat. (See page 4-13 for seat removal and installation procedures.)
2. Remove the bolts and the quick fasteners.
3. Remove the fuel tank cap by turning it counterclockwise.



1. Panel
2. Bolt (× 2)
3. Quick fastener (× 2)
4. Fuel tank cap

⚠ WARNING

POTENTIAL HAZARD

Improper handling of gasoline.

WHAT CAN HAPPEN

Gasoline can catch fire and you could be burned.

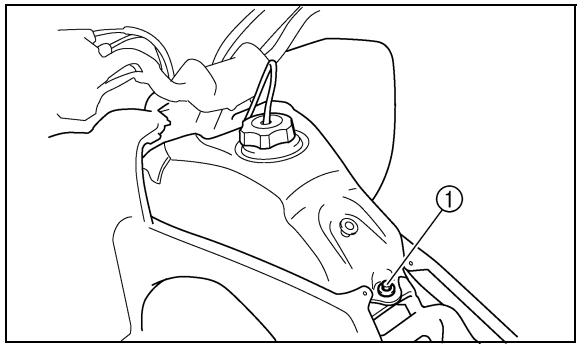
HOW TO AVOID THE HAZARD

Always turn off the engine when removing the fuel tank cap.

Do not remove the fuel tank cap immediately after the engine has been running and is still very hot. Do not spill gasoline on the engine or exhaust pipe/muffler. Never remove the fuel tank cap while smoking, or in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers.

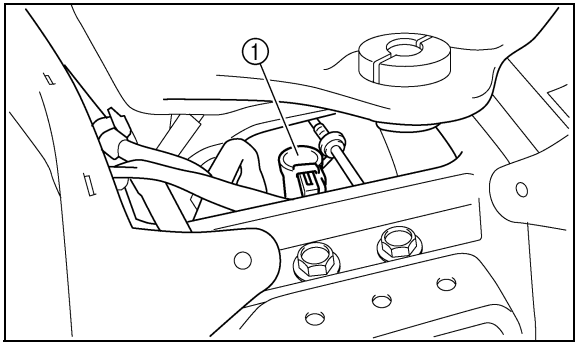
Before lifting the fuel tank, make sure that the fuel cock is in the "OFF" position and the fuel tank cap is securely tightened. Otherwise, fuel may leak out of the carburetor or fuel tank.

4. Pull the panel backward, and then remove the panel.
5. Install the fuel tank cap by turning it clockwise.
6. Remove the bolt, lift the rear of the fuel tank, and then tilt it back.



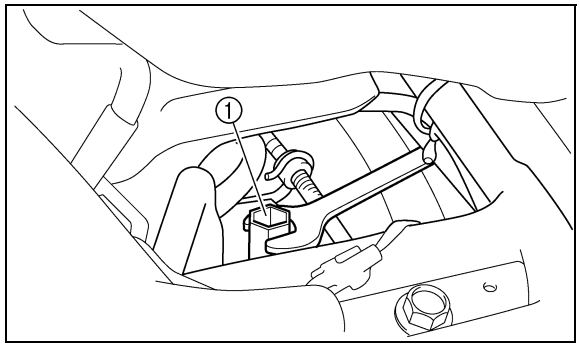
1. Bolt

7. Remove the spark plug cap.



1. Spark plug cap

8. Use the spark plug wrench in the owner's tool kit to remove the spark plug as shown.



1. Spark plug wrench

Inspection

The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate the condition of the engine.

The ideal color on the white insulator around the center electrode is a medium-to-light tan color for an ATV that is being ridden normally. Do not attempt to diagnose such problems yourself.

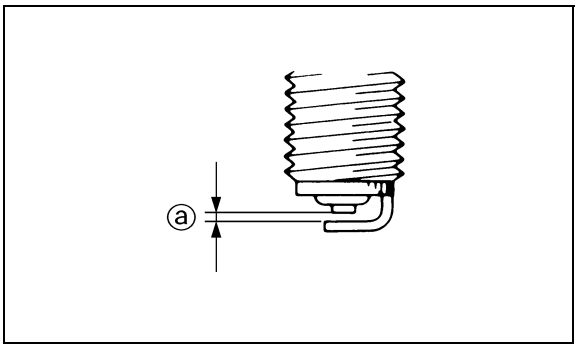
Instead, take the ATV to a Yamaha dealer. You should periodically remove and inspect the spark plug because heat and deposits will cause the spark plug to slowly break down and erode. If electrode erosion becomes excessive, or if carbon and other deposits are excessive, you should replace the spark plug with the specified plug.

Specified spark plug:
CR8E (NGK)

Installation

1. Measure the electrode gap with a wire thickness gauge and, if necessary, adjust the gap to specification.

Spark plug gap:
0.7–0.8 mm (0.028–0.031 in)



a. Spark plug gap

2. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.
3. Install the spark plug and tighten it to the specified torque.

Tightening torque:
Spark plug:
12.5 Nm (1.25 m·kgf, 9.0 ft·lbf)

NOTE:

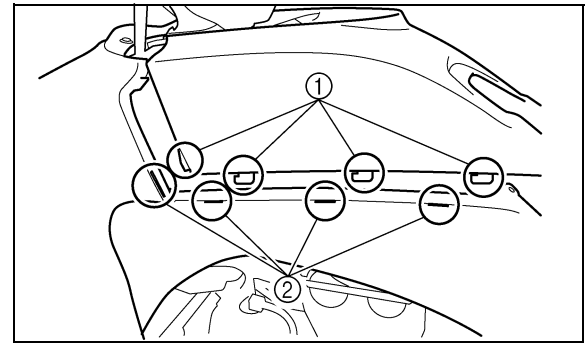
If a torque wrench is not available when you are installing a spark plug, a good estimate of the correct torque is 1/4 to 1/2 turn past finger tight. Have the spark plug tightened to the specified torque as soon as possible.

4. Install the spark plug cap.

CAUTION:

Do not use any tools to remove or install the spark plug cap, otherwise the ignition coil coupler may be damaged. The spark plug cap may be difficult to remove because the rubber seal on the end of the cap fits tightly. To remove the spark plug cap, simply twist it back and forth while pulling it out; to install it, twist it back and forth while pushing it in.

5. Place the fuel tank in the original position, and then install the bolt.
6. Remove the fuel tank cap by turning it counterclockwise.
7. Place the panel in the original position.



1. Projection (× 4) 2. Slot (× 4)

8. Install the fuel tank cap by turning it clockwise.
9. Install the bolts and the quick fasteners.

NOTE:

To install the quick fastener, push the center pin out so that it will protrude from the fastener head, insert the fastener into the panel, and then push the protruding pin in until it is flush with the fastener head.

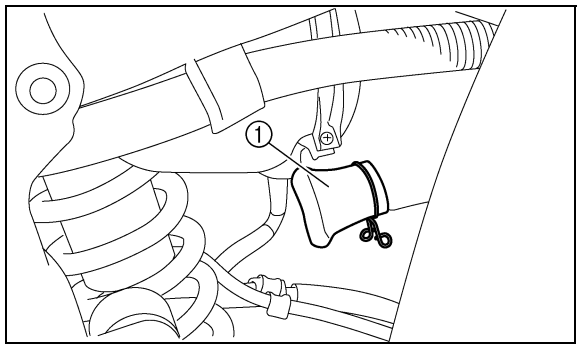
10. Install the seat.

EBU13960

Air filter element cleaning

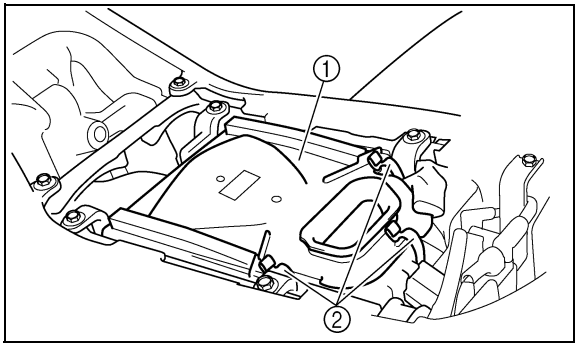
NOTE:

There is a check hose at the bottom of the air filter case. If dust or water collects in this hose, empty the hose and clean the air filter element and air filter case.



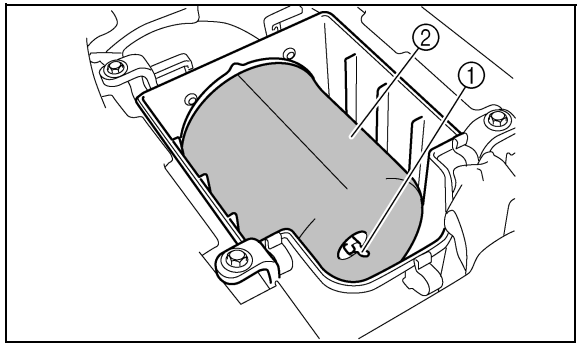
1. Check hose

1. Remove the seat. (See page 4-13 for seat removal and installation procedures.)
2. Remove the air filter case cover by unhooking the holders.



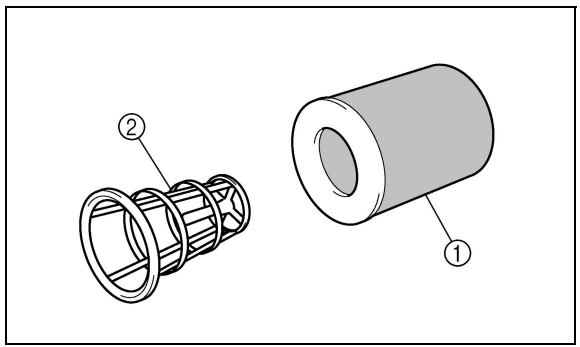
1. Air filter case cover 2. Holder (× 3)

3. Remove the air filter element by removing the wing bolt.



1. Wing bolt 2. Air filter element

4. Remove the air filter element from its frame.



1. Air filter element 2. Frame

5. Wash the air filter element gently but thoroughly in solvent.

⚠ WARNING

POTENTIAL HAZARD

Using low flash point solvents or gasoline to clean the air filter element.

WHAT CAN HAPPEN

Low flash point solvents or gasoline can catch fire or explode.

HOW TO AVOID THE HAZARD

Use parts cleaning solvent to clean the air filter element.

6. Squeeze the excess solvent out of the air filter element and let it dry.

CAUTION:

Do not twist the air filter element when squeezing it.

7. Inspect the air filter element and replace it if damaged.

8. Apply Yamaha foam air filter oil or other quality foam air filter oil to the air filter element. If foam air filter oil is not available, engine oil may be used.

NOTE:
The air filter element should be wet but not dripping.

9. Pull the air filter element over its frame.
10. Install the air filter element by installing the wing bolt.
11. Install the air filter case cover by hooking the holders.
12. Install the seat.

NOTE:
The air filter element should be cleaned every 20–40 hours. It should be cleaned and lubricated more often if the machine is operated in extremely dusty areas. Each time air filter element maintenance is performed, check the air inlet to the air filter case for obstructions. Check the air intake duct between the air filter case and the carburetor and the manifold fittings for an airtight seal. Tighten all fittings securely to avoid the possibility of unfiltered air entering the engine.

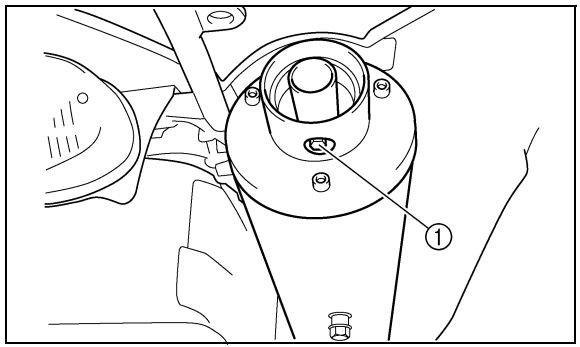
CAUTION:
Never operate the engine with the air filter element removed. This will allow unfiltered air to enter the engine, causing rapid engine wear and possible engine damage. Additionally, operation without the air filter element will affect carburetor jetting with subsequent poor performance and possible engine overheating.

EBU00780

Spark arrester cleaning

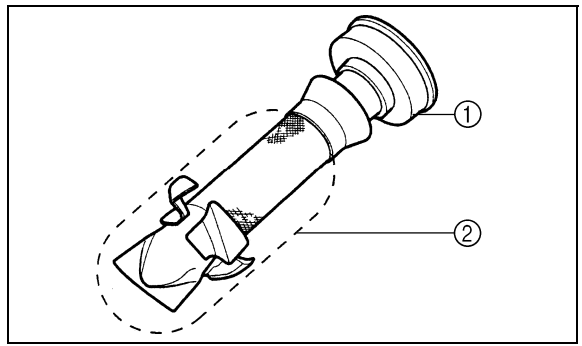
Be sure the exhaust pipe and muffler are cool before cleaning the spark arrester.

1. Remove the bolt.



1. Bolt

2. Remove the tailpipe by pulling it out of the muffler.
3. Tap the tailpipe lightly, then use a wire brush to remove any carbon deposits from the spark arrester portion of the tailpipe.



1. Tailpipe
2. Spark arrester

4. Insert the tailpipe into the muffler and align the bolt holes.
5. Install the bolt and tighten it.

⚠ WARNING

POTENTIAL HAZARD

Improper cleaning of the spark arrester.
Hot exhaust system

WHAT CAN HAPPEN

Could injure the eyes.
Could cause burns.
Could cause carbon monoxide poisoning, possibly leading to death.
Could start a fire.

HOW TO AVOID THE HAZARD

When cleaning the spark arrester:
Always let the exhaust system cool prior to touching exhaust components.
Do not start the engine when cleaning the exhaust system.

EBU00296

Carburetor adjustment

The carburetor is a vital part of the engine and requires very sophisticated adjustment. Most adjusting should be left to a Yamaha dealer who has the professional knowledge and experience to do so. However, the idling speed may be performed by the owner as a part of the usual maintenance routine.

CAUTION:

The carburetor was set at the Yamaha factory after many tests. If the settings are disturbed by someone without sufficient technical knowledge, poor engine performance and damage may result.

EBU13970

Idle speed adjustment

A special tester is needed to check the engine r/min on this model.

Therefore, take the ATV to a Yamaha dealer to have the idle speed adjusted.

Specified idle speed:
1,750–1,850 r/min

EBU00303

Valve clearance adjustment

The correct valve clearance changes with use, resulting in improper fuel/air supply or engine noise. To prevent this, the valve clearance must be adjusted regularly. This adjustment however, should be left to a professional Yamaha service technician.

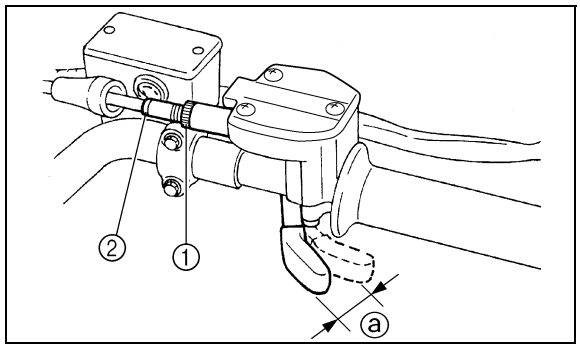
EBU00307

Throttle lever adjustment

NOTE:

Adjust the engine idling speed before adjusting the throttle lever free play.

1. Loosen the locknut.
2. Turn the adjusting bolt until the throttle lever free play is 2–4 mm (0.08–0.16 in).
3. Tighten the locknut.



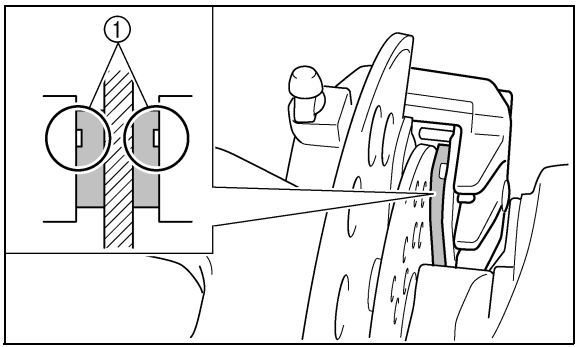
1. Locknut
2. Adjusting bolt

a. Throttle lever free play

EBU13981

Front brake pad inspection

Each brake pad is provided with a wear indicator groove. The indicator grooves allow checking of brake pad wear without disassembling the brake. Apply the brake and inspect the wear indicator grooves. If a brake pad is worn to the point that the wear indicator groove is almost in contact with the disc plate, ask a Yamaha dealer to replace the brake pads as a set.



1. Wear indicator groove

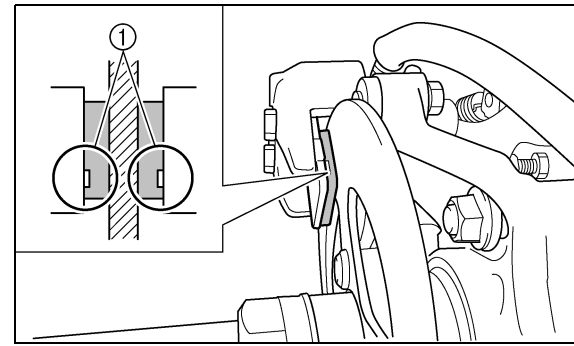
NOTE:

The wheels need to be removed to inspect the brake pads. (See page 8-47 for wheel removal and installation procedures.)

EBU13990

Rear brake pad inspection

Each brake pad is provided with a wear indicator groove. The indicator grooves allow checking of brake pad wear without disassembling the brake. Apply the brake and inspect the wear indicator grooves. If a brake pad is worn to the point that the wear indicator groove is almost in contact with the disc plate, ask a Yamaha dealer to replace the brake pads as a set.



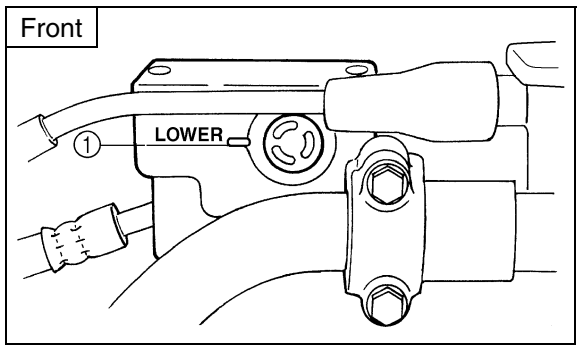
1. Wear indicator groove

EBU01214

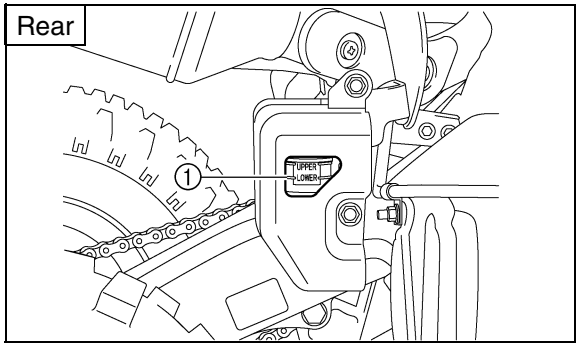
Brake fluid level inspection

Insufficient brake fluid may let air enter the brake system, possibly causing the brakes to become ineffective.

Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.



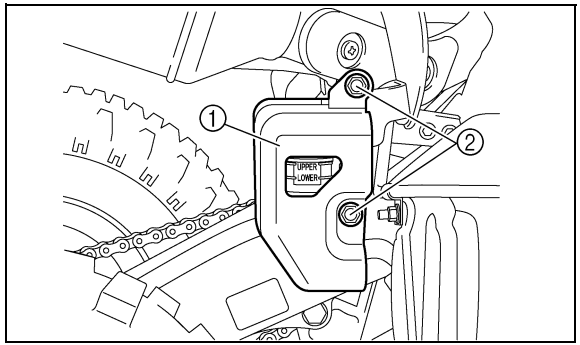
1. Minimum level mark



1. Minimum level mark

NOTE:

To access the rear brake fluid reservoir, remove the reservoir cover by removing the bolts.



1. Brake fluid reservoir cover 2. Bolt (× 2)

Observe these precautions:

- When checking the brake fluid level, make sure the top of the brake fluid reservoir is level.
- Use only the designated quality brake fluid, otherwise, the rubber seals may deteriorate, causing leakage and poor brake performance.

Recommended brake fluid: DOT 4

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor brake performance.
- Be careful that water does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- Have a Yamaha dealer check the cause if the brake fluid level goes down.

EBU01186

Brake fluid replacement

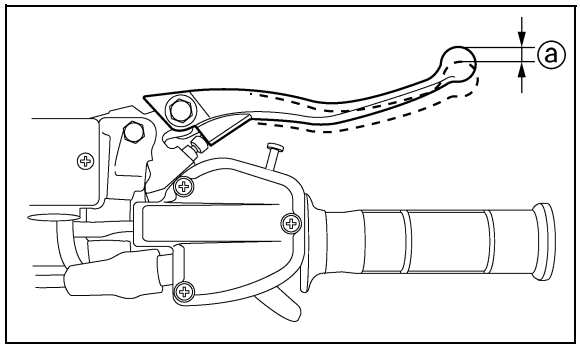
Complete fluid replacement should be done only by trained Yamaha service personnel. Have a Yamaha dealer replace the following components during periodic maintenance or when they are damaged or leaking.

- Replace the oil seals every two years.
- Replace the brake hoses every four years.

EBU01187

Front brake lever free play

The front brake lever should have a free play of zero mm (zero in) at the lever end. If not, have a Yamaha dealer check the brake system.



a. Brake lever free play

⚠ WARNING

POTENTIAL HAZARD

Operating with improperly serviced or adjusted brakes.

WHAT CAN HAPPEN

You could lose braking ability, which could lead to an accident.

HOW TO AVOID THE HAZARD

After servicing:

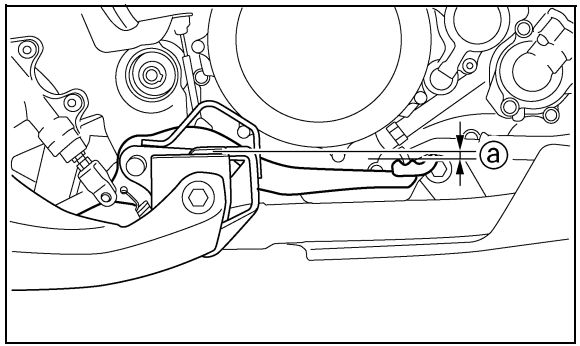
- **Make sure the brakes operate smoothly and that the free play is correct.**
- **Make sure the brakes do not drag.**
- **Make sure the brakes are not spongy. All air must be bled from the brake system.**

Replacement of brake components requires professional knowledge. These procedures should be performed by a Yamaha dealer.

EBU01191

Brake pedal height adjustment

The top of the brake pedal should be positioned 11.7 mm (0.46 in) below the top of the footrest. If not, have a Yamaha dealer adjust it.



a. Brake pedal position

⚠ WARNING

POTENTIAL HAZARD

Operating with improperly serviced or adjusted brakes.

WHAT CAN HAPPEN

You could lose braking ability, which could lead to an accident.

HOW TO AVOID THE HAZARD

After servicing:

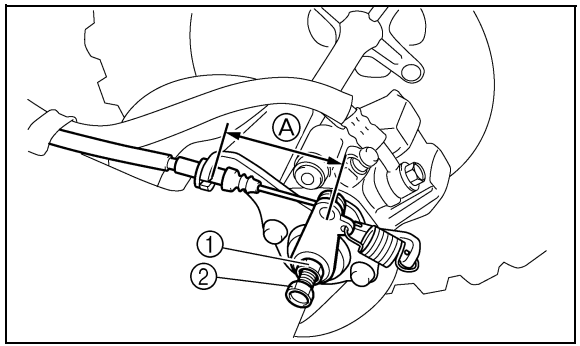
- **Make sure the brakes operate smoothly and that the brake pedal position is correct.**
- **Make sure the brakes do not drag.**
- **Make sure the brakes are not spongy. All air must be bled from the brake system.**

Replacement of brake components requires professional knowledge. These procedures should be performed by a Yamaha dealer.

EBU14000

Parking brake adjustment

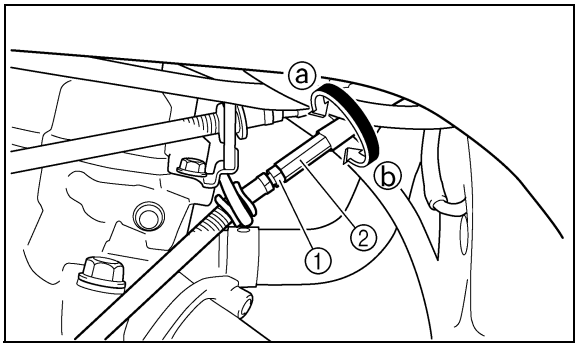
Parking brake adjustment may be required if the parking brake does not hold properly. The cable length Ⓐ should be adjusted to 56–60 mm (2.20–2.36 in).



1. Locknut
2. Adjusting bolt

A. Cable length

1. Loosen the locknut and the adjusting nut on the brake cable below the fuel tank.
2. Fully loosen the locknut and the adjusting bolt at the rear brake caliper.
3. Turn the adjusting nut on the brake cable in direction ⓐ to increase the cable length or in direction ⓑ to decrease the cable length.



1. Locknut
2. Adjusting nut

NOTE:

If the cable cannot be adjusted to specification, consult a Yamaha dealer.

4. Tighten the locknut on the brake cable.

5. Screw in the adjusting bolt at the rear brake caliper by hand until it feels tight, then screw it out 1/8 turn. Tighten the locknut to the specified torque.

Tightening torque:
Locknut:
16 Nm (1.6 m·kgf, 12 ft·lbf)

CAUTION:

When tightening the locknut, hold the adjusting bolt with a wrench so that the adjusting bolt does not turn together with the locknut.

⚠ WARNING

POTENTIAL HAZARD

Operating with improperly adjusted brakes.

WHAT CAN HAPPEN

The brakes could malfunction, causing reduced braking performance. This could increase the chance of a collision or accident.

HOW TO AVOID THE HAZARD

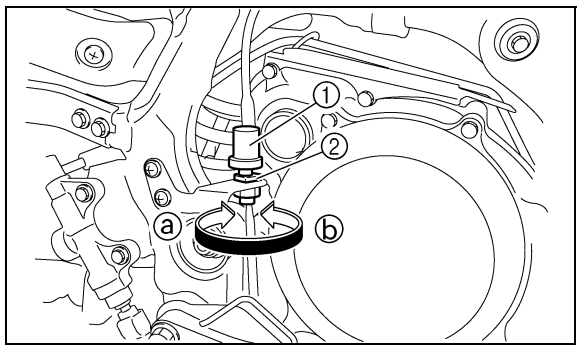
After adjusting the parking brake, block the rear of the machine off the ground and spin the rear wheels. Check to make sure there is no brake drag. If brake drag is noticed, perform the adjustment again.

EBU00833

Adjusting the rear brake light switch

The rear brake light switch, which is activated by the brake pedal and brake lever, is properly adjusted when the brake light comes on just before braking takes effect. If necessary, adjust the brake light switch as follows.

Turn the adjusting nut while holding the rear brake light switch in place. To make the brake light come on earlier, turn the adjusting nut in direction ⓐ. To make the brake light come on later, turn the adjusting nut in direction ⓑ.

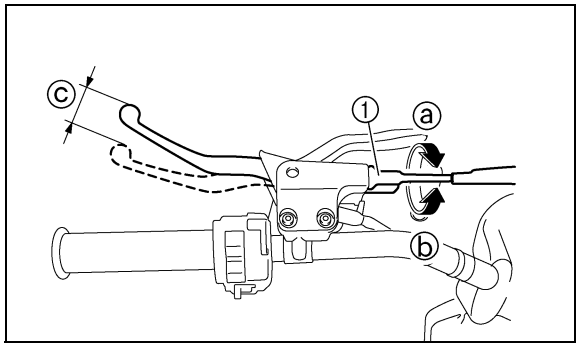


1. Rear brake light switch 2. Adjusting nut

EBU14210

Clutch lever free play adjustment

The clutch lever free play should be adjusted to 8–13 mm (0.31–0.51 in).

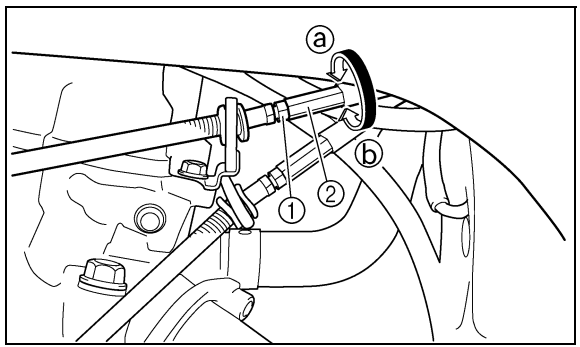


1. Adjusting nut c. Clutch lever free play

1. Fully turn the adjusting nut at the clutch lever in direction ⓐ to increase the free play or in direction ⓑ to decrease the free play.

If the specified free play cannot be obtained, proceed with the following steps.

2. Turn the adjusting nut at the clutch lever in direction ⓐ to loosen the cable.
3. Loosen the locknut at the crankcase side.
4. Turn the adjusting nut at the crankcase in direction ⓐ to increase the free play or in direction ⓑ to decrease the free play.
5. Tighten the locknut at the crankcase side.



1. Locknut 2. Adjusting nut

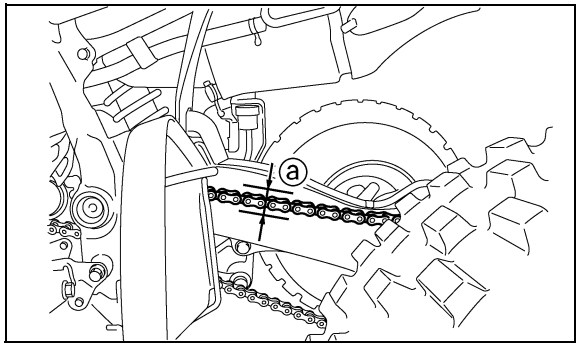
EBU01144

Drive chain slack check

NOTE:

Move the ATV back and forth and find the tightest position of the drive chain. Check and/or adjust the chain slack while it is in this tightest position.

To check the drive chain slack, all tires must be touching the ground and there should be no weight on it. Check the drive chain slack at the position shown in the illustration Normal slack is approximately 25–35 mm (0.98–1.38 in). If the slack exceeds 35 mm (1.38 in), adjust it to specification.

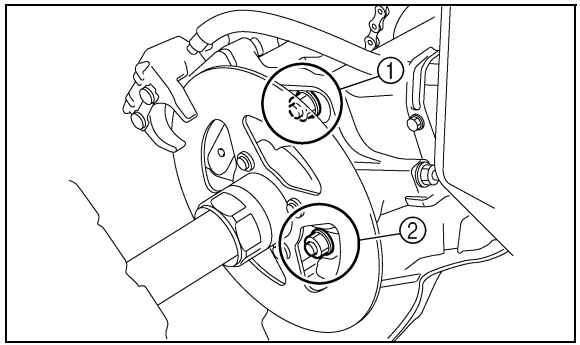


a. Drive chain slack

EBU01194

Drive chain slack adjustment

1. Loosen the rear wheel hub upper and lower nuts.

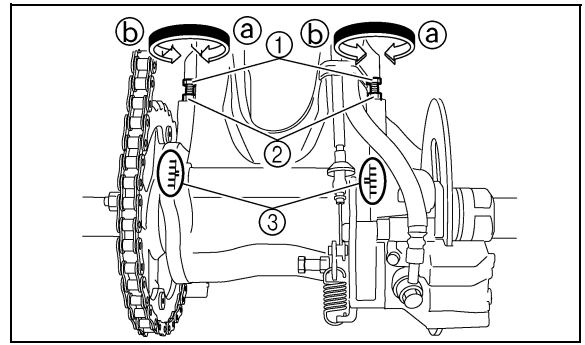


1. Upper wheel hub nut 2. Lower wheel hub nut

2. Loosen the locknuts on each side of the swingarm. To tighten the drive chain, turn the adjusting bolts in direction ⓐ. To loosen the drive chain, turn the adjusting bolts in direction ⓑ and push the wheels forward. Turn each adjusting bolt exactly the same amount to maintain correct axle alignment.

NOTE:

There are alignment marks on each side of the swingarm and on the hub. Use them to check for proper wheel axle alignment.



1. Adjusting bolt (× 2) 2. Locknut (× 2)
3. Alignment marks

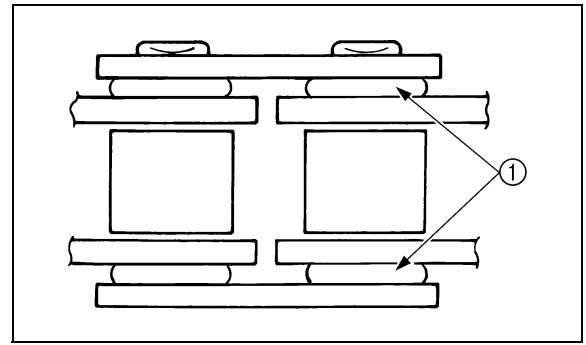
3. After adjusting, tighten the locknuts and the wheel hub nuts to the specified torques.

Tightening torques:
Locknut:
16 Nm (1.6 m·kgf, 12 ft·lbf)
Upper wheel hub nut:
85 Nm (8.5 m·kgf, 61 ft·lbf)
Lower wheel hub nut:
85 Nm (8.5 m·kgf, 61 ft·lbf)

EBU00805

Lubricating the drive chain

The drive chain must be cleaned and lubricated at the intervals specified in the periodic maintenance and lubrication chart, otherwise it will quickly wear out, especially when riding in dusty or wet areas. Service the drive chain as follows.



1. O-rings

CAUTION:

The drive chain must be lubricated after washing the ATV or riding in the rain.

1. Clean the drive chain with kerosene and a small soft brush.

CAUTION:

To prevent damaging the O-rings, do not clean the drive chain with steam cleaners, high-pressure washers or inappropriate solvents.

2. Wipe the drive chain dry.
3. Thoroughly lubricate the drive chain with a special O-ring chain lubricant.

CAUTION:

Do not use engine oil or any other lubricants for the drive chain, as they may contain substances that could damage the O-rings.

EBU00356

Cable inspection and lubrication

⚠ WARNING

POTENTIAL HAZARD

Damaged control cables.

WHAT CAN HAPPEN

Corrosion can result when the outer covering of control cables becomes damaged. Cables can also become frayed or kinked. Operation of controls could be restricted, which could cause an accident or injury.

HOW TO AVOID THE HAZARD

Inspect cables frequently. Replace damaged cables.

Lubricate the inner cables and the cable ends. If the cables do not operate smoothly, ask a Yamaha dealer to replace them.

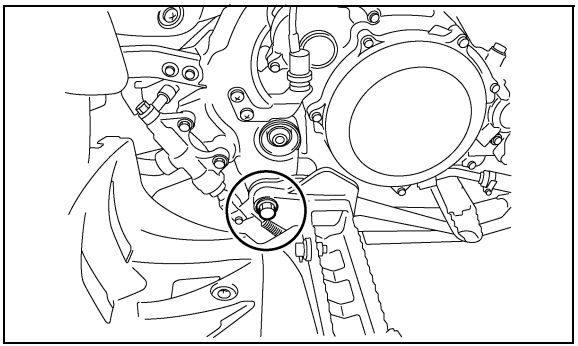
Recommended lubricant:
Yamaha chain and cable lube or
SAE 10W30 motor oil

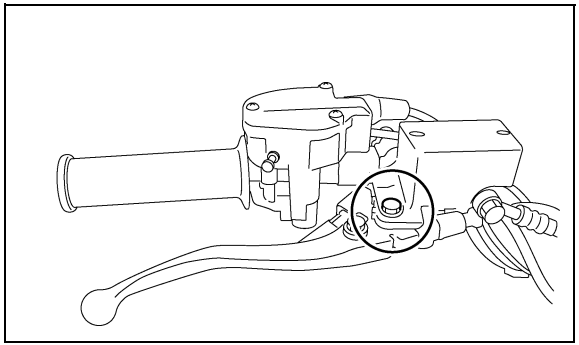
EBU14020

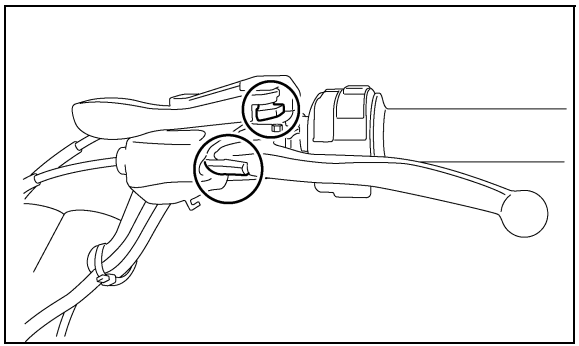
Brake pedal, brake lever and clutch lever lubrication

Lubricate the pivoting parts.

Recommended lubricant:
Lithium-soap-based grease
(all-purpose grease)





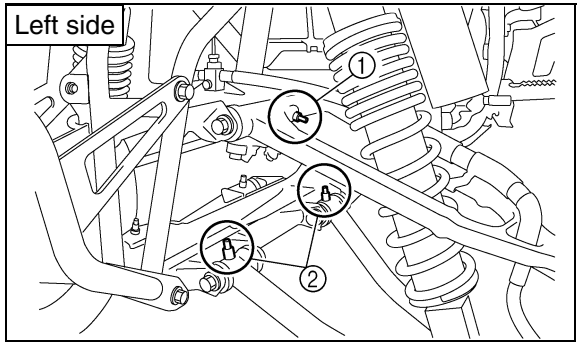


EBU01018

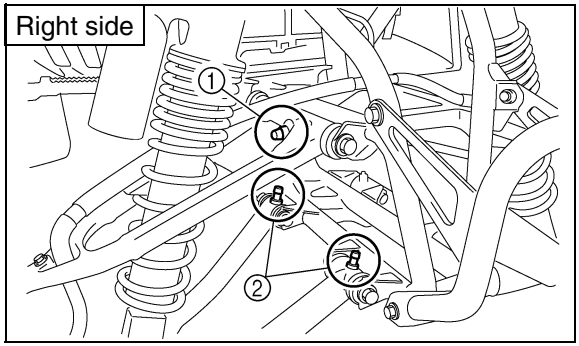
Front upper and lower arm pivot lubrication

Lubricate the upper and lower arm pivots.

Recommended lubricant:
Lithium-soap-based grease



1. Upper grease nipple
2. Lower grease nipple (× 2)



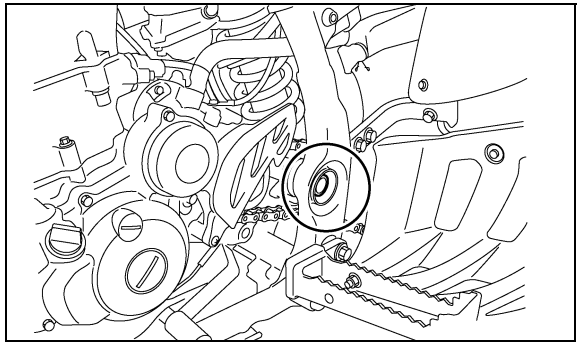
1. Upper grease nipple
2. Lower grease nipple (× 2)

EBU10190

Rear arm pivot lubrication

Lubricate the rear arm pivot.

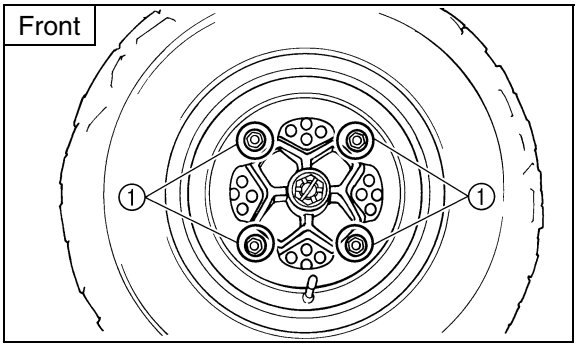
Recommended lubricant:
Lithium-soap-based grease



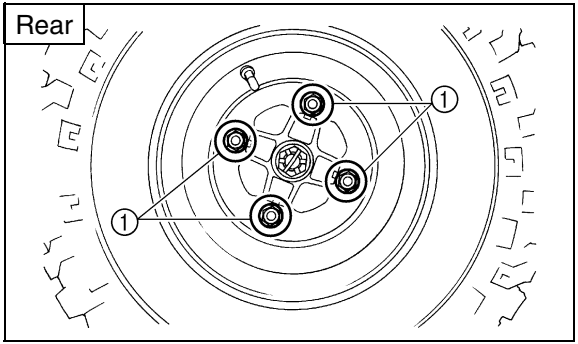
EBU01112

Wheel removal

1. Loosen the wheel nuts.
2. Elevate the ATV and place a suitable stand under the frame.
3. Remove the nuts from the wheel.
4. Remove the wheel.



1. Nut (× 4)



1. Nut (× 4)

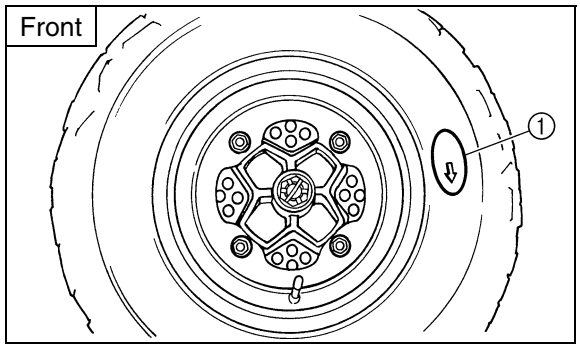
EBU14031

Wheel installation

When installing the wheel, reverse the removal procedure.

NOTE:

The arrow mark ⇩ on each front tire must point toward the rotating direction of the wheel.



1. Arrow mark

Tighten the wheel nuts to the specified torque.

Wheel nut torque:
Front: 45 Nm (4.5 m·kgf, 33 ft·lbf)
Rear: 45 Nm (4.5 m·kgf, 33 ft·lbf)

EBU00380

Battery

This machine is equipped with a sealed-type battery. Therefore it is not necessary to check the electrolyte or add distilled water in the battery. If the battery seems to have discharged, consult a Yamaha dealer.

CAUTION:

Do not try to remove the sealing caps of the battery cells. You may damage the battery.

⚠ WARNING

POTENTIAL HAZARD

Failure to handle batteries or battery electrolyte carefully.

WHAT CAN HAPPEN

You could be poisoned. You could be severely burned by the sulfuric acid in battery electrolyte. Batteries produce explosive gases.

HOW TO AVOID THE HAZARD

Avoid contact with skin, eyes or clothing. Always shield eyes when working near batteries. Keep out of reach of children.

Antidote:

EXTERNAL: Flush with water.

INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Get prompt medical attention.

EYES: Flush with water for 15 minutes and get prompt medical attention. Keep batteries away from sparks, flames, cigarettes or other sources of ignition. Ventilate when charging or using in a closed space.

EBU00385

Battery maintenance

1. When the machine is not used for a month or longer, remove the battery and store it in a cool, dark place. Completely recharge the battery before reinstallation.

CAUTION:

A special battery charger (constant voltage/ampere or constant voltage) is required for recharging a sealed-type battery. Using a conventional battery charger may shorten the battery life.

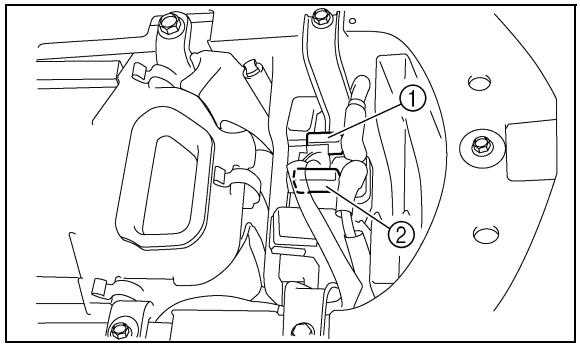
2. Always make sure the connections are correct when putting the battery back in the machine.

EBU00390

Fuse replacement

1. The fuse case is located under the seat.
2. If the fuse is blown, turn off the main switch and install a new fuse of the specified amperage. Then turn on the switches. If the fuse immediately blows again, consult a Yamaha dealer.

Specified fuse: 15 A



1. Fuse
2. Spare fuse

⚠ WARNING

POTENTIAL HAZARD

Using an improper fuse.

WHAT CAN HAPPEN

An improper fuse can cause damage to the electrical system which could lead to a fire.

HOW TO AVOID THE HAZARD

Always use a fuse of the specified rating. Never use a material in place of the proper fuse.

CAUTION:

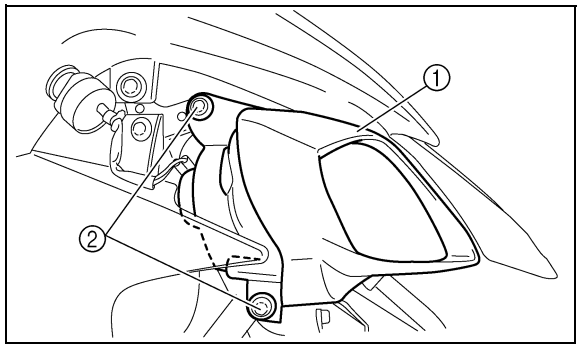
To prevent accidental short-circuiting, turn off the main switch when checking or replacing a fuse.

EBU14040

Replacing a headlight bulb

If a headlight bulb burns out, replace it as follows.

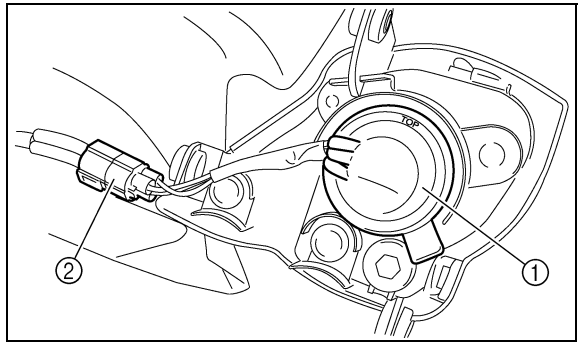
1. Remove the headlight assembly by removing the bolts.



1. Headlight assembly 2. Bolt (× 2)

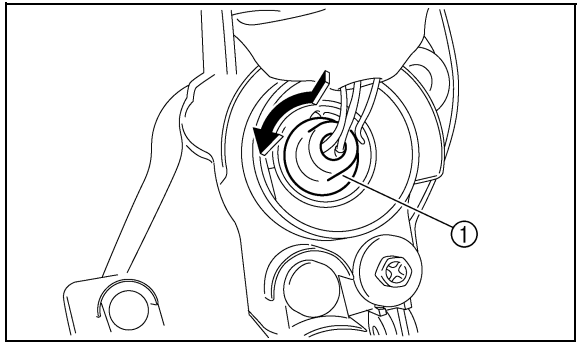
2. Disconnect the headlight coupler.

3. Remove the headlight bulb holder cover.



1. Headlight bulb holder cover
2. Headlight coupler

4. Push the headlight bulb holder in and turn it counterclockwise to remove.



1. Headlight bulb holder

5. Remove the defective bulb and replace it with a new bulb.

⚠ WARNING

POTENTIAL HAZARD

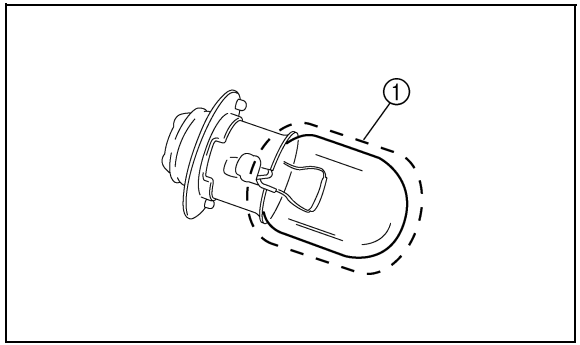
A headlight bulb is hot when it is on and immediately after it is turned off.

WHAT CAN HAPPEN

You can be burned, or a fire could start if the bulb touches something flammable.

HOW TO AVOID THE HAZARD

Wait for the bulb to cool before touching or removing it.



1. Do not touch the glass part of the bulb.

CAUTION:

Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected. Thoroughly clean off any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner.

6. Push the headlight bulb holder in and turn it clockwise to install.
7. Install the headlight bulb holder cover.
8. Connect the headlight coupler.
9. Install the headlight assembly by installing the bolts.
10. Adjust the headlight beam if necessary.

EBU14050

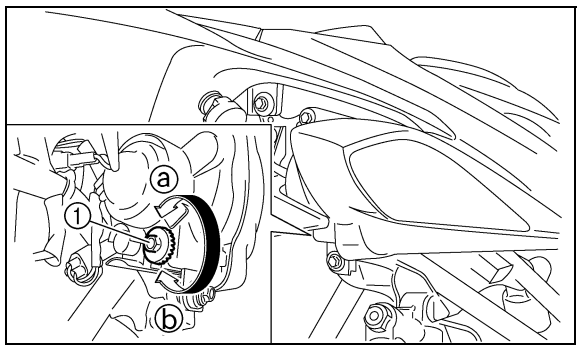
Headlight beam adjustment

CAUTION:

It is advisable to have a Yamaha dealer make this adjustment.

To raise the beam, turn the adjusting bolt in direction ⓐ.

To lower the beam, turn the adjusting bolt in direction ⓑ.

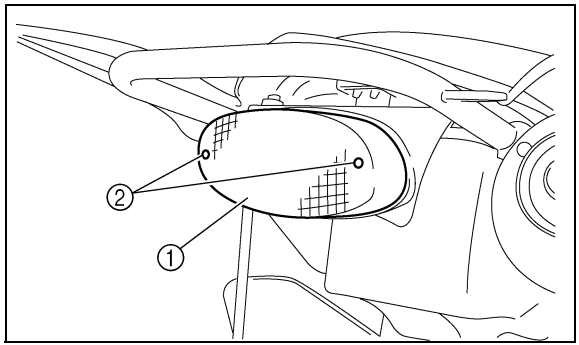


1. Headlight beam adjusting bolt

EBU01217

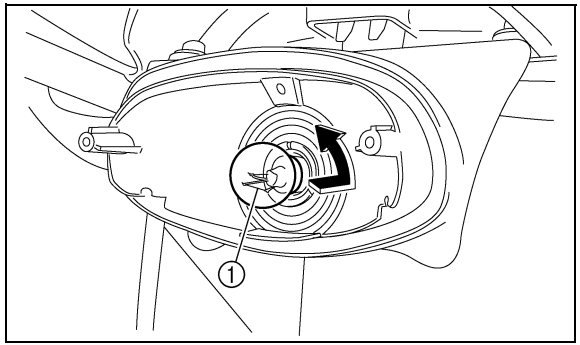
Tail/brake light bulb replacement

1. Remove the lens by removing the screws.



1. Lens 2. Screw (× 2)

2. Remove the defective bulb by pushing it inward and turning it counterclockwise.



1. Bulb

3. Install a new bulb by pushing it inward and turning it clockwise.
4. Install the lens by installing the screws.

CAUTION:

Do not overtighten the screws as the lens may break.

EBU00412

Troubleshooting

Although Yamaha machines receive a rigid inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition systems can cause poor starting and loss of power. The troubleshooting chart describes a quick, easy procedure for making checks. If your machine requires any repair, take it to a Yamaha dealer.

The skilled technicians at a Yamaha dealership have the tools, experience, and know-how to properly service your machine. Use only genuine Yamaha parts on your machine. Imitation parts may look like Yamaha parts, but they are often inferior. Consequently, they have a shorter service life and can lead to expensive repair bills.

⚠ WARNING

POTENTIAL HAZARD

Checking the fuel system while smoking or near an open flame.

WHAT CAN HAPPEN

Fuel can ignite or explode, causing severe injury or property damage.

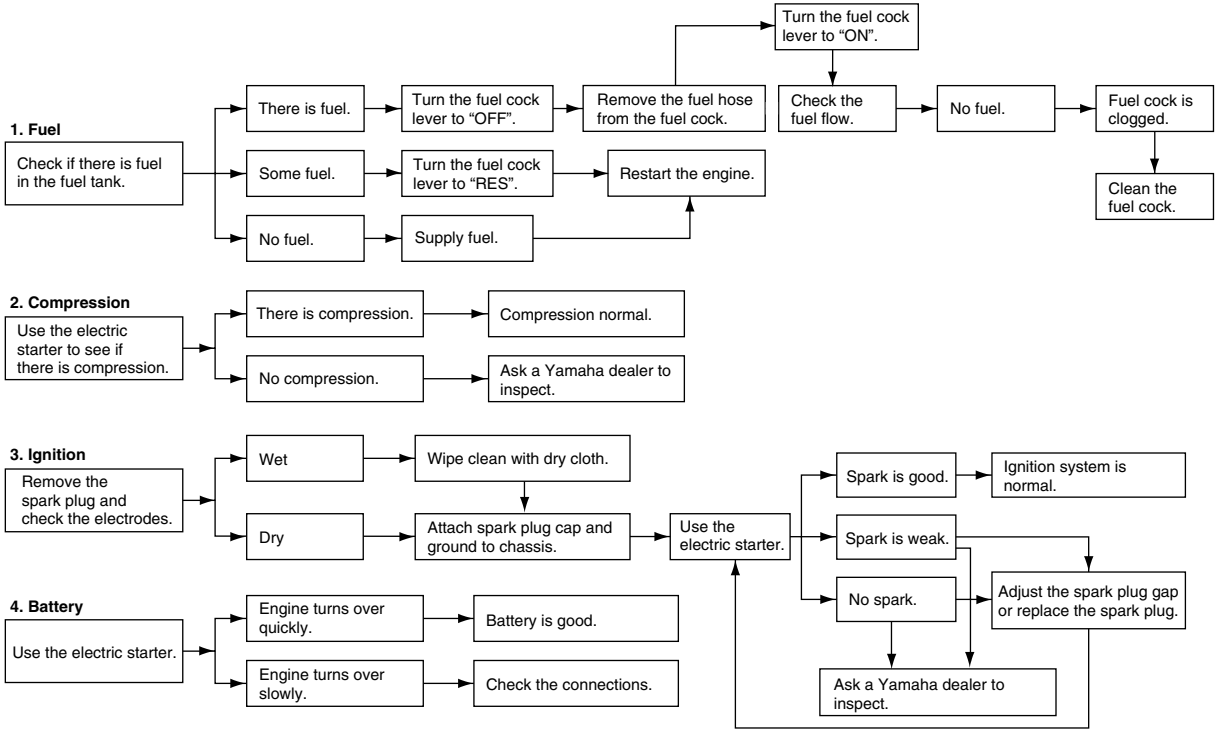
HOW TO AVOID THE HAZARD

Do not smoke when checking the fuel system. Make sure there are no open flames or sparks in the area, including pilot lights from water heaters or furnaces.

EBU00806*

Troubleshooting charts

Starting problems or poor engine performance


1. Fuel
Check if there is fuel in the fuel tank.
There is fuel.
Turn the fuel cock lever to “OFF”.
Remove the fuel hose from the fuel cock.
Turn the fuel cock lever to “ON”.
Check the fuel flow.
No fuel.
Fuel cock is clogged.
Clean the fuel cock.
Some fuel.
Turn the fuel cock lever to “RES”.
Restart the engine.
No fuel.
Supply fuel.
2. Compression
Use the electric starter to see if there is compression.
There is compression.
Compression normal.
No compression.
Ask a Yamaha dealer to inspect.
3. Ignition
Remove the spark plug and check the electrodes.
Wet
Wipe clean with dry cloth.
Dry
Attach spark plug cap and ground to chassis.
Use the electric starter.
Spark is good.
Ignition system is normal.
Spark is weak.
No spark.
Adjust the spark plug gap or replace the spark plug.
Ask a Yamaha dealer to inspect.
4. Battery
Use the electric starter.
Engine turns over quickly.
Battery is good.
Engine turns over slowly.
Check the connections.

Engine overheating

⚠ WARNING

POTENTIAL HAZARD

Removing the radiator cap when the engine and radiator are still hot.

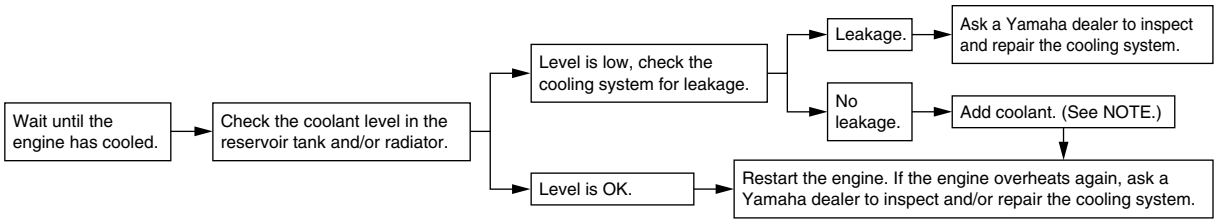
WHAT CAN HAPPEN

You could be burned by hot fluid and steam blown out under pressure.

HOW TO AVOID THE HAZARD

Wait for the engine to cool before removing the radiator cap.

Always use a thick rag over the cap. Allow any remaining pressure to escape before completely removing the cap.


Wait until the engine has cooled.
Check the coolant level in the reservoir tank and/or radiator.
Level is low, check the cooling system for leakage.
Leakage.
Ask a Yamaha dealer to inspect and repair the cooling system.
No leakage.
Add coolant. (See NOTE.)
Level is OK.
Restart the engine. If the engine overheats again, ask a Yamaha dealer to inspect and/or repair the cooling system.

NOTE:

If it is difficult to get the recommended coolant, tap water can be temporarily used, provided that it is changed to the recommended coolant as soon as possible.

EBU00417

CLEANING AND STORAGE

A. CLEANING

Frequent, thorough cleaning of your machine will not only enhance its appearance but will improve its general performance and extend the useful life of many components.

1. Before cleaning the machine:
   a. Block off the end of the exhaust pipe to prevent water entry. A plastic bag and strong rubber band may be used.
   b. Make sure the spark plug and all filler caps are properly installed.
2. If the engine case is excessively greasy, apply degreaser with a paint brush. Do not apply degreaser to the chain, sprockets or wheel axles.
3. Rinse the dirt and degreaser off with a garden hose. Use only enough pressure to do the job.

CAUTION:

Excessive water pressure may cause water seepage and deterioration of wheel bearings, brakes, transmission seals and electrical devices. Many expensive repair bills have resulted from improper high pressure detergent applications such as those available in coin-operated car washers.

4. Once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-get-at places.
5. Rinse the machine off immediately with clean water and dry all surfaces with a chamois, clean towel or soft absorbent cloth.
6. Dry the chain and lubricate it to prevent rust.

7. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
8. Automotive type wax may be applied to all painted and chrome plated surfaces. Avoid combination cleaner-waxes. Many contain abrasives which may mar the paint or protective finish. When finished, start the engine and let it idle for several minutes.

⚠ WARNING

POTENTIAL HAZARD

Operation with wet brakes after washing.

WHAT CAN HAPPEN

Wet brakes may have reduced stopping ability, increasing the chance of an accident.

HOW TO AVOID THE HAZARD

Test the brakes after washing. Apply the brakes several times at slow speeds to let friction dry out the linings.

EBU00525

B. STORAGE

Long term storage (60 days or more) of your machine will require some preventive procedures to guard against deterioration. After thoroughly cleaning the machine, prepare for storage as follows:

1. Fill the fuel tank with fresh fuel and add the specified amount of Yamaha Fuel Stabilizer and Conditioner or an equivalent product.

Specified amount:
1 oz of stabilizer to each gallon of fuel (or 7.5 cc of stabilizer to each liter of fuel)

NOTE:

Use of fuel stabilizer and conditioner eliminates the need to drain the fuel system. Consult a Yamaha dealer if the fuel system needs to be drained instead.

2. Remove the spark plug, pour about one tablespoon of SAE 10W30 or 20W40 motor oil in the spark plug hole and reinstall the spark plug. Ground the spark plug wire and turn the engine over several times to coat the cylinder wall with oil.
3. Clean the drive chain thoroughly and lubricate it. (See page 8-41.)
4. Lubricate all control cables.
5. Block up the frame to raise all wheels off the ground.
6. Tie a plastic bag over the exhaust pipe outlet to prevent moisture from entering.
7. If storing in a humid or salt-air atmosphere, coat all exposed metal surfaces with a light film of oil. Do not apply oil to any rubber parts or the seat cover.

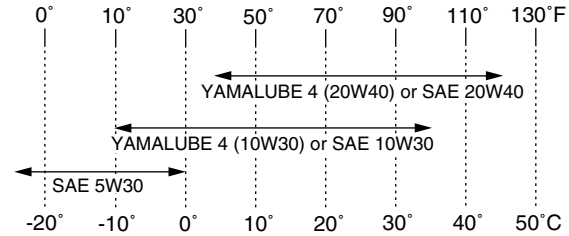
8. Remove the battery and charge it. Store it in a dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place (less than 0 °C (30 °F) or more than 30 °C (90 °F)).

NOTE:
Make any necessary repairs before storing the machine.

EBU00428

SPECIFICATIONS

MODEL	YFZ450
Dimension:	
Overall length	1,840 mm (72.4 in)
Overall width	1,170 mm (46.1 in)
Overall height	1,090 mm (42.9 in)
Seat height	800 mm (31.5 in)
Wheel base	1,280 mm (50.4 in)
Ground clearance	255 mm (10.04 in)
Minimum turning radius	3,500 mm (137.8 in)
Basic weight:	
With oil and full fuel tank	169 kg (373 lb)
Engine:	
Type	Liquid-cooled, 4-stroke, DOHC
Cylinder arrangement	Forward inclined single cylinder
Displacement	439 cm^3
Bore × stroke	95 × 62 mm (3.74 × 2.44 in)
Compression ratio	11.9 : 1
Starting system	Electric starter
Lubrication system	Dry sump

MODEL	YFZ450
Engine oil: Type	
Recommended engine oil classification:	API Service SE, SF, SG type or higher
	CAUTION: **In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERVING II" or higher.**
Quantity: Without oil filter element replacement With oil filter element replacement	 1.75 L (1.54 Imp qt, 1.85 US qt) 1.85 L (1.63 Imp qt, 1.96 US qt)

MODEL	YFZ450
Radiator capacity (including all routes):	1.3 L (1.14 Imp qt, 1.37 US qt)
Air filter:	Wet element
Fuel: Type Tank capacity Reserve amount	 PREMIUM UNLEADED GASOLINE ONLY 10.0 L (2.20 Imp gal, 2.64 US gal) 1.9 L (0.42 Imp gal, 0.50 US gal)
Carburetor: Type × quantity Manufacturer	 FCR39H × 1 KEIHIN
Spark plug: Type/manufacturer Gap	 CR8E/NGK 0.7–0.8 mm (0.028–0.031 in)
Clutch: Type Operation	 Wet, multiple-disc Left hand operation
Transmission: Primary Reduction System Primary Reduction Ratio Secondary Reduction System Secondary Reduction Ratio Transmission type Operation	 Spur gear 62/22 (2.818) Chain drive 38/14 (2.714) Constant mesh, 5-speed forward Left foot operation

MODEL	YFZ450
Gear ratio:	
1st	29/12 (2.416)
2nd	27/14 (1.928)
3rd	25/16 (1.562)
4th	23/18 (1.277)
5th	21/20 (1.050)
Chassis:	
Frame type	Steel tube
Caster angle	5°
Trail	21 mm (0.83 in)
Tire:	
Type	Tubeless
Size: Front	AT21 × 7-10
Size: Rear	AT20 × 10-9
Brake:	
Front brake type	Dual disc brake
Operation	Right hand operation
Rear brake type	Single disc brake
Operation	Right foot operation
Suspension:	
Front	Double wishbone
Rear	Swingarm (link suspension)
Shock absorber:	
Front	Coil spring/gas-oil damper
Rear	Coil spring/gas-oil damper

MODEL	YFZ450
Wheel travel: Front Rear	 230 mm (9.06 in) 256 mm (10.08 in)
Electrical: Ignition system Generator system Battery type/voltage capacity	 DC-C.D.I. A.C. magneto GT7B-4/12 V, 6.5 Ah
Headlight type:	Krypton bulb
Bulb voltage, wattage × quantity: Headlight Tail/brake light Indicator/warning lights: Neutral Coolant temperature	 12 V, 30 W/30 W × 2 12 V, 5 W/21 W × 1 12 V, 1.7 W × 1 12 V, 1.7 W × 1
Fuse:	15 A

NOISE REGULATION

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED:

Federal law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

“AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW.”

These acts include tampering with the following systems; i.e., modification, removal, etc.

Exhaust system	Muffler Exhaust pipe Silencer
Intake system	Air cleaner case Air cleaner element Intake duct

EBU13651

MAINTENANCE RECORD

Copies of work orders and/or receipts for parts you purchase and install will be required to document maintenance done in accordance with the warranty. The chart below is printed only as a reminder to you that the maintenance work is required. It is not acceptable proof of maintenance work.

MAINTENANCE INTERVAL	DATE OF SERVICE	SERVICING DEALER NAME AND ADDRESS	REMARKS
1 Month			
3 Months			
6 Months			
12 Months			
18 Months			
24 Months			
30 Months			
36 Months			
42 Months			
48 Months			
54 Months			
60 Months			

YAMAHA MOTOR CORPORATION, U.S.A.
ATV LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants that new Yamaha ATV purchased from an authorized Yamaha ATV dealer in the continental United States will be free from defects in material and workmanship for the period of time stated herein, subject to certain stated limitations.

THE PERIOD OF WARRANTY for Yamaha ATV's shall be six (6) months from the date of purchase.

DURING THE PERIOD OF WARRANTY any authorized Yamaha ATV dealer will, free of charge, repair or replace any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the product's warranty period. All parts replaced under warranty become property of Yamaha Motor Corp. U.S.A.

GENERAL EXCLUSIONS from this warranty shall include any failures caused by:

a. Competition or racing use.
b. Installation of parts or accessories that are not qualitatively equivalent to genuine Yamaha parts.
c. Abnormal strain, neglect, or abuse.
d. Lack of proper maintenance.
e. Accident or collision damage.
f. Modification to original parts.
g. Damage due to improper transportation.

SPECIFIC EXCLUSIONS from this warranty shall include parts replaced due to normal wear or routine maintenance; such as spark plugs, oil, oil filter, air filter, and brake shoes.

THE CUSTOMER'S RESPONSIBILITY under this warranty shall be to:

1. Operate and maintain the ATV as specified in the appropriate owner's manual;
2. Give notice to an authorized Yamaha ATV dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs at such dealer's place of business.

WARRANTY TRANSFER: To transfer the warranty from the original purchaser to any subsequent purchaser(s), it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha ATV dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service.

YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

YAMAHA MOTOR CORPORATION, U.S.A.
P.O. Box 6555
Cypress, California 90630

WARRANTY QUESTIONS AND ANSWERS

Q. What costs are my responsibility during the warranty period?
A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident and collision damages, and oil, oil filters, air filters, spark plugs, and brake shoes.

Q. What are some examples of "abnormal" strain, neglect, or abuse?
A. These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil, sustained high-rpm, full-throttle, operating the machine with a broken or damaged part which causes another part to fail, damage or failure due to improper or careless transportation and or tie down. If you have any specific questions on operation or maintenance, please contact your dealer for advice.

Q. Does the warranty cover incidental costs such as towing or transportation due to a failure?
A. No. The warranty is limited to repair of the machine itself.

Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?
A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by Yamaha ATV dealer.

Q. Will the warranty be void or cancelled if I do not operate or maintain my new ATV exactly as specified in the Owner's Manual?
A. No. The warranty on a new ATV cannot be "voided" or "cancelled." **However, if a particular failure is caused by operation or maintenance other than as shown in the Owner's Manual, that failure may not be covered under warranty**.

Q. What responsibility does my dealer have under this warranty?
A. Each Yamaha ATV dealer is expected to:
1. Completely set up every new machine before sale.
2. Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
3. Each Yamaha ATV dealer is held responsible for his setup, service and warranty repair work.

Q. Is the warranty transferable to second owners?
A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha ATV dealer for the policy to remain effective.

CUSTOMER SERVICE

If your machine requires warranty service, you must take it to any authorized Yamaha ATV dealer within the continental United States. Be sure to bring your warranty registration card or other valid proof of the original date of purchase. If a question or problem arises regarding warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. If you are still not satisfied and require additional assistance, please write:

YAMAHA MOTOR CORPORATION U.S.A.
CUSTOMER RELATIONS DEPARTMENT
P.O. Box 6555
Cypress, California 90630

When contacting Yamaha Motor Corporation, U.S.A. don't forget to include any important information such as names, addresses, model, V.I.N. (frame number), dates, and receipts.

CHANGE OF ADDRESS

The federal government requires each manufacturer of a motor vehicle to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is compiled from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase.

If you should move after you have purchased your new ATV, please advise us of your new address by sending a postcard listing your ATV model name, V.I.N. (frame number), dealer number (or dealer's name) as it is shown on your warranty card, your name and new mailing address. Mail to:

YAMAHA MOTOR CORPORATION, U.S.A.
P.O. Box 6555
Cypress, California 90630
Attention: Warranty Department

This will ensure that Yamaha Motor Corporation, U.S.A. has an up-to-date registration record in accordance with federal law.

EBU00435

YAMAHA EXTENDED SERVICE (Y.E.S.)

Keep your Yamaha protected even after your warranty expires with genuine Yamaha Extended Service (Y.E.S.).

- Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.
- Y.E.S. is flexible. You choose the plan that's right for you: 12 months, 24 months, or 36 months beyond your warranty period.
- Y.E.S. is designed and administered by the same Yamaha people who handle your warranty – and it shows in the comprehensive coverage benefits. There are no mileage limitations. Coverage isn't limited to "moving parts" or the "drive train" like many other plans. And Y.E.S. covers manufacturing defects just like the warranty. See the sample contract at your Yamaha dealer to see how comforting uninterrupted factory-backed protection can be.
- You don't have to pay anything for covered repairs. There's no deductible to pay, and repairs aren't "pro-rated." You don't have any "out-of-pocket" expenses for covered repairs.
- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to $150 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle rental, emergency towing, phone calls, even food and lodging when you are away from home. This superb coverage goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well as covered repairs during your entire Y.E.S. plan period.
- Y.E.S. coverage is honored at any authorized Yamaha dealer nationwide.
- Y.E.S. coverage is transferable to a new owner if you sell or trade-in. That can make your Yamaha much more valuable!

This excellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while your Yamaha is still within the Yamaha Limited Warranty period. So visit your authorized Yamaha dealer to get all the facts. He can show you how easy it is to protect your investment with Yamaha Extended Service.

We urge you to act now. You'll get the excellent benefits of TRIP coverage right away, and you'll rest easy knowing you'll have strong factory-backed protection even after your Yamaha Limited Warranty expires. You can also save money: Y.E.S. costs less within the first 90 days after you buy your Yamaha. See your dealer today!

A special note:
If visiting your dealer isn't convenient, contact Yamaha with your Primary ID number (your frame number). We'll be happy to help you get the Y.E.S. coverage you need.

Yamaha Service Marketing
P.O. Box 6555
Cypress, CA 90630

EBU00436

⚠ WARNING

Indicates a potential hazard that could result in serious injury or death.

EBU00437

PROTECT YOUR INVESTMENT
Use Genuine YAMAHA Parts And Accessories

See your Authorized YAMAHA Dealer for a Genuine YAMAHA Service Manual.

EBU00438

⚠ WARNING

Improper ATV use can result in SEVERE INJURY or DEATH.

ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR

NEVER USE ON PUBLIC ROADS

NEVER CARRY PASSENGERS

NEVER USE WITH DRUGS OR ALCOHOL

NEVER operate:

- without proper training or instruction.
- at speeds too fast for your skills or the conditions.
- on public roads-a collision can occur with another vehicle.
- with a passenger-passengers affect balance and steering and increase risk of losing control.

ALWAYS:

- use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.
- avoid paved surfaces-pavement may seriously affect handling and control.

LOCATE AND READ OWNER'S MANUAL. FOLLOW ALL INSTRUCTIONS AND WARNINGS.
(For replacement manual, call 1-800-532-1558)

YAMAHA

YAMAHA MOTOR CO., LTD.

PRINTED ON RECYCLED PAPER

PRINTED IN JAPAN
2003.04-6.2×2 CR
(E)

Dear Yamaha ATV Owner: Please Review this IMPORTANT SAFETY CARD before operating your ATV (If card is not attached, call 1-800-344-6418).

Dear New Yamaha ATV Owner:

CONGRATULATIONS ON THE PURCHASE OF YOUR NEW YAMAHA ATV. You have purchased a quality Yamaha product that, with proper use and care, will provide hours of riding pleasure. **BEFORE YOU OPERATE YOUR NEW ATV, Yamaha recommends these important points:**

- READ YOUR OWNER'S MANUAL
- A CHILD UNDER 6 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE 50CC OR GREATER
- A CHILD UNDER 12 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE 70CC OR GREATER
- A CHILD UNDER 16 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE GREATER THAN 90CC
- TAKE THE FREE HANDS-ON TRAINING COURSE OFFERED BY YAMAHA – ASK YOUR DEALER FOR DETAILS OR CALL 1-800-887-2887

If you have any questions about these points, **or if you purchased your ATV from an authorized Yamaha dealership and were not informed of the age recommendation for your ATV by the dealership,** please fill out the information below and mail this card to yamaha **today.**

Name:

Address:

Telephone:
( )

ATV Model:

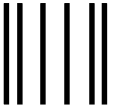
Purchase Date:
MO. DAY YR.

Primary I.D. (Engine Number):

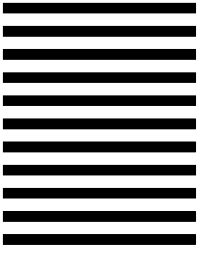
Dealer Name & Address:

This is not a warranty card

READ CAREFULLY



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 4 CYPRESS, CA

POSTAGE WILL BE PAID BY ADDRESSEE

YAMAHA MOTOR CORPORATION U.S.A.
P.O. BOX 6555
CYPRESS, CALIFORNIA 90630-9989

ATTN: SALES ADMINISTRATION